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LANE MEDICAL LIBRARY STANFORD

TWENTY-SEVENTH

ANNUAL REPORT

OF THE

State Board of Health
of Indiana

FOR THE

Fiscal Year Ending September 30, 1908.
Statistical Year Ending December 31, 1908.

TO THE GOVERNOR.

INDIANAPOLIS :

WM. B. BURFORD, CONTRACTOR FOR STATE PRINTING AND BINDING
1909

Mar. 1.	To Dr. Fred A. Tucker, board meeting.....	\$10 96
" 10.	To Dr. Geo. T. McCoy, board meeting.....	11 75
" 10.	To Dr. T. Henry Davis, board meeting.....	12 76
" 10.	To Dr. Wm. N. Wishard, board meeting....	10 00
" 16.	To Central Union Telephone Co., tolls for January and February.....	6 10
" 16.	To Art Metal Construction Co., file case....	100 00
" 24.	To Henry W. Bennett, P. M., postage stamps	200 00
" 31.	To May Stuart, salary.....	34 62
" 31.	To Maude Linn, salary.....	50 00
" 31.	To Mrs. Eva Case, salary.....	50 00
" 31.	To Mrs. Florence Vollrath, salary.....	50 00
" 31.	To Ethel Hoffman, salary.....	50 00
" 31.	To Louise Lingenfelter, salary.....	50 00
" 31.	To Nina Bogue, salary.....	15 38
Total, second quarter.....		\$3,196 94
Apr. 10.	To Dr. Fred A. Tucker, board meeting.....	\$14 81
" 10.	To Dr. Geo. T. McCoy, board meetings.....	11 75
" 10.	To Dr. Wm. N. Wishard, board meeting.....	10 00
" 10.	To Dr. T. Henry Davis, board meeting.....	13 26
" 10.	To Addressograph Co., merchandise.....	4 31
" 10.	To American Toilet Supply Co., laundry....	3 75
" 10.	To Aquos Distilled Water Co., merchandise	50 00
" 10.	To Adams Express Co., services.....	12 55
" 10.	To American Express Co., services.....	16 70
" 10.	To United States Express Co., services.....	2 90
" 10.	To W. H. Bass Photo Co., merchandise.....	18 60
" 10.	To Wm. B. Burford, printing and stationery	372 90
" 10.	To The Scarborough Co., maps.....	2 00
" 10.	To Smith-Premier Typewriter Co., merchan- dise	1 50
" 10.	To Central Union Telephone Co., rent and tolls	21 45
" 10.	To Indianapolis Telephone Co., rent and tolls	31 15
" 10.	To Western Union Telegraph Co., tolls.....	6 58
" 10.	To J. L. Anderson, expense	30 47
" 10.	To J. N. Hurty, expense	127 50
" 27.	To Henry W. Bennett, P. M., stamps.....	200 00
" 30.	To Maude E. Linn, salary.....	50 00
" 30.	To Mrs. Eva Case, salary.....	50 00
" 30.	To Mrs. Florence Vollrath, salary.....	50 00
" 30.	To Ethel Hoffman, salary.....	50 00
" 30.	To Louise Lingenfelter, salary.....	50 00
" 30.	To Nina Bogue, salary.....	50 00
May 14.	To Dr. Fred A. Tucker, Health Officers' con- ference	12 21
" 14.	To Dr. Geo. T. McCoy, Health Officers' con- ference	11 75

May 14.	To Dr. T. Henry Davis, Health Officers' conference	\$12 76
" 14.	To Dr. C. S. Woods, lecture before conference	10 00
" 14.	To Prof. Severance Burrage, lecture before conference	10 00
" 14.	To Claypool Hotel Co., 10 lunches.....	7 50
" 29.	To Robert H. Bryson, P. M., postage stamps	200 00
" 30.	To Maude E. Linn, salary.....	50 00
" 30.	To Mrs. Eva Case, salary.....	50 00
" 30.	To Mrs. Florence Vollrath, salary.....	50 00
" 30.	To Ethel Hoffman, salary.....	50 00
" 30.	To Louise Lingenfelter, salary.....	50 00
" 30.	To Nina Bogue, salary.....	50 00
June 30.	To Maude Linn, salary.....	50 00
" 30.	To Mrs. Eva Case, salary.....	50 00
" 30.	To Mrs. Florence Vollrath, salary.....	50 00
" 30.	To Ethel Hoffman, salary.....	50 00
" 30.	To Louise Lingenfelter, salary.....	50 00
" 30.	To Nina Bogue, salary.....	50 00

Total for third quarter.....

\$2,071 40

July 9.	To American Toilet Supply Co., laundry....	\$3 75
" 9.	To Dr. H. W. Alexander & Co., merchandise.	75
" 9.	To J. L. Anderson, expense.....	11 31
" 9.	To Aquos Distilled Water Co., merchandise..	6 50
" 9.	To W. H. Bass Photo Co., merchandise.....	2 40
" 9.	To Dr. A. W. Brayton, services.....	50 00
" 9.	To Chas. F. Bretzman, photographs.....	6 00
" 9.	To Bird Typewriter Co., merchandise.....	1 75
" 9.	To Wm. B. Burford, printing and stationery	637 48
" 9.	To Adams Express Co., services.....	5 30
" 9.	To United States Express Co., services.....	5 67
" 9.	To Dr. J. N. Hurty, expense.....	145 01
" 9.	To Indianapolis Calcium Light Co., lantern.	7 50
" 9.	To Dr. Geo. M. Sternberg, treasurer (National T. B. Asso.), dues.....	5 00
" 9.	To Wm. Schoenhelt, M. D., merchandise....	12 03
" 9.	To Smith-Premier Typewriter Co., merchandise	75
" 9.	To N. L. Stebbins, photographs.....	6 00
" 9.	To Addressograph Co., merchandise.....	4 31
" 9.	To Western Union Telegraph Co., services..	2 38
" 9.	To Dr. Fred A. Tucker, expense.....	57 70
" 9.	To Dr. Geo. T. McCoy, expense.....	23 50
" 9.	To Dr. T. Henry Davis, expense.....	26 44
" 9.	To Dr. Wm. N. Wishard, expense.....	10 00
" 31.	To Maude Linn, salary.....	50 00
" 31.	To Mrs. Eva Case, salary.....	50 00
" 31.	To Mrs. Florence Vollrath, salary.....	50 00

RECAPITULATION.

Appropriations.

Secretary's salary (specific)	\$3,000 00
Chief Clerk's salary (specific)	1,500 00
Appropriation State Board of Health Office.....	10,000 00
Appropriation Laboratory of Hygiene	14,000 00
Appropriation Laboratory of Pure Food and Drugs...	15,000 00
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Total	\$43,500 00

Expenditures.

Secretary's salary (specific)	\$3,000 00
Chief Clerk's salary (specific)	1,500 00
Office expenses	9,942 13
Laboratory of Hygiene, expenses	13,590 17
Laboratory of Pure Food and Drugs, expenses.....	14,837 38
<hr/>	
Total	\$42,869 68
<hr/>	
Total amount reverting to general fund.....	\$630 32

FINANCIAL STATEMENT.

INDIANA STATE BOARD OF HEALTH—LABORATORY OF HYGIENE.

For Fiscal Year October 1, 1907, to September 30, 1908.

1907.

Oct. 7.	To J. B. Rucker, Jr., salary.....	\$35 00
" 11.	To Wm. B. Burford, printing and supplies..	295 72
" 31.	To Dr. Helene Knabe, salary.....	116 66
" 31.	To Dr. Ada Schweitzer, salary.....	60 00
" 31.	To Dr. R. S. Rissler, salary.....	20 00
" 31.	To Mrs. F. M. Carper, salary.....	50 00
" 31.	To R. P. Johnson, salary.....	45 00
Nov. 2.	To Dr. J. N. Hurty, expense.....	64 05
" 2.	To Dr. Wm. H. Wishard, expense.....	47 75
" 2.	To Wm. H. Armstrong, merchandise.....	5 25
" 2.	To Joseph Gardner, merchandise.....	23 32
" 13.	To Henry W. Bennett, postage stamps.....	50 00
" 30.	To Dr. Helene Knabe, salary.....	116 67
" 30.	To Dr. Ada Schweitzer, salary	75 00
" 30.	To Dr. R. S. Rissler, salary.....	52 00
" 30.	To Mrs. F. M. Carper, salary.....	50 00
" 30.	To R. P. Johnson, salary.....	45 00
" 30.	To Frank Krapp, salary.....	23 00
" 30.	To J. Herbert Brewster, salary.....	80 00

Sept. 24.	To Elmer & Amend, merchandise.....	\$49 68
" 28.	To H. E. Barnard, expense.....	120 72
" 28.	To B. W. Cohn, expense.....	63 55
" 28.	To A. W. Bruner, expense.....	79 64
" 28.	To F. W. Tucker, expense.....	69 63
" 28.	To John Owens, expense.....	65 57
" 28.	To Wm. B. Burford, printing and stationery.	161 09
" 28.	To E. H. Sargent & Co., merchandise.....	15 00
" 28.	To Pettis Dry Goods Co., merchandise.....	1 90
" 28.	To J. L. Anderson, expense.....	10 35
" 30.	To Weber Drug Co., merchandise.....	12 50
" 30.	To Hogan Transfer Co., freight and drayage	1 77
" 30.	To Dr. Helene Knabe, salary.....	116 66
" 30.	To Dr. Ada Schweitzer, salary.....	75 00
" 30.	To Dr. R. S. Rissler, salary.....	75 00
" 30.	To Mrs. F. M. Carper, salary.....	50 00
" 30.	To Robt. P. Johnson, salary.....	45 00
" 30.	To J. H. Brewster, salary.....	100 00
" 30.	To B. W. Cohn, salary.....	100 00
" 30.	To A. W. Bruner, salary.....	83 34
" 30.	To Ernest Elmore, salary.....	40 00
" 30.	To Franz Kropp, labor.....	22 00
Total for fourth quarter.....		\$6,404 92
Appropriation		\$14,000 00
Expense first quarter		\$1,809 04
Expense second quarter		2,183 64
Expense third quarter		3,231 03
Expense fourth quarter		6,404 92
		13,628 63
Balance reverting to general fund.....		\$371 37

FINANCIAL STATEMENT.

INDIANA STATE BOARD OF HEALTH—LABORATORY OF PURE FOOD AND DRUGS.

For Fiscal Year October 1, 1907, to September 30, 1908.

1907.		
Oct. 11.	To Pittman-Myers Co., drugs.....	\$65 84
" 31.	To B. W. Cohn, expense.....	90 99
" 31.	To A. W. Bruner, expense.....	83 86
" 31.	To F. W. Tucker, expense.....	74 12
" 31.	To John Owens, expense.....	60 97
" 31.	To G. R. Coffin, expense.....	1 30
" 31.	To H. E. Barnard, expense	41 26
" 31.	To H. E. Barnard, salary	208 33

Dec. 17.	To carpenter, carpenter work and repairs...	\$45 85
" 17.	To J. H. Brewster, expense.....	8 50
" 21.	To H. E. Bishop, expense.....	1 90
" 21.	To carpenter, carpenter work.....	38 40
" 28.	To carpenter, carpenter work.....	32 00
" 31.	To H. E. Barnard, salary	208 34
" 31.	To H. E. Bishop, salary	116 06
" 31.	To I. L. Miller, salary.....	83 34
" 31.	To Will D. McAbee, salary.....	50 00
" 31.	To Mrs. Nellie M. Coney, salary.....	50 00
" 31.	To Lillian R. Chandler, salary.....	37 50
" 31.	To Phillip Brodus, salary.....	45 00
" 31.	To B. W. Cohn, salary.....	100 00
" 31.	To A. W. Bruner, salary.....	83 34
" 31.	To F. W. Tucker, salary.....	83 34
" 31.	To John Owens, salary.....	83 34
" 31.	To G. R. Coffin, salary.....	38 46
Total for first quarter.....		\$4,230 31
By error in addition of voucher No. 89,654.....		18
		<hr/> \$4,230 13

1908.

Jan. 3.	To H. E. Barnard, expense.....	\$20 20
" 3.	To B. W. Cohn, expense.....	62 73
" 3.	To A. W. Bruner, expense.....	63 12
" 3.	To F. W. Tucker, expense.....	65 07
" 3.	To John Owens, expense.....	81 88
" 10.	To Adams Express Co., services October, November, December, 1907.....	14 50
" 10.	To American Express Co., services October, November, December, 1907.....	11 09
" 10.	To U. S. Express Co., services October, November, December, 1907.....	60
" 10.	To American Toilet Supply Co., laundry....	16 05
" 10.	To Aquos Distilled Water Co., water.....	3 50
" 10.	To Wm. B. Burford, printing and stationery	21 26
" 10.	To Central Supply Co., merchandise.....	21 27
" 10.	To Harmon & Hall, merchandise.....	42 30
" 10.	To The Johnson-Woodbridge Co., merchandise	80
" 10.	To H. Lieber Co., merchandise.....	3 30
" 10.	To G. M. Merrick, typewriter repairs.....	2 25
" 10.	To Pioneer Brass Works, merchandise.....	12 00
" 10.	To Vonnegut Hardware Co., merchandise....	2 50
" 10.	To J. L. Anderson, expense	68
" 11.	To J. L. Brewster, expense	95
" 11.	To merchandise	2 05
" 18.	To Brydon Bros., carpenter work.....	38 40
" 18.	To H. E. Barnard, expense, sundry.....	4 80
" 18.	To I. L. Miller, expense.....	1 80

June 30.	To Mrs. Nellie M. Coney, salary.....	\$50 00
" 30.	To Edith Hoffman, salary.....	40 00
" 30.	To Phillip Brodus, salary.....	45 00
" 30.	To Bert W. Cohn, salary.....	100 00
" 30.	To A. W. Bruner, salary.....	83 34
" 30.	To F. A. Tucker, salary.....	83 34
" 30.	To John Owens, salary.....	83 34
Total for the third quarter.....		\$2,830 00
July 31.	To H. E. Barnard, salary	\$208 33
" 31.	To H. E. Bishop, salary	116 67
" 31.	To I. L. Miller, salary.....	83 33
" 31.	To Will D. McAbee, salary.....	50 00
" 31.	To Mrs. Nellie M. Coney, salary.....	50 00
" 31.	To Edith Hoffman, salary.....	40 00
" 31.	To Phillip Brodus, salary.....	45 00
" 31.	To Bert W. Cohn, salary.....	100 00
" 31.	To A. W. Bruner, salary.....	83 33
" 31.	To F. W. Tucker, salary.....	83 33
" 31.	To John Owens, salary.....	83 33
Aug. 22.	To H. E. Barnard, expense National Pure Food Convention	49 30
" 31.	To H. E. Barnard, salary	208 33
" 31.	To H. E. Bishop, salary	116 67
" 31.	To Ivy L. Miller, salary.....	83 33
" 31.	To Will D. McAbee, salary.....	50 00
" 31.	To Mrs. Nellie M. Coney, salary.....	50 00
" 31.	To Edith Hoffman, salary.....	40 00
" 31.	To Phillip Brodus, salary.....	45 00
" 31.	To F. W. Tucker, salary.....	83 33
" 31.	To John Owens, salary.....	83 33
Sept. 30.	To H. E. Barnard, salary	208 34
" 30.	To H. E. Bishop, salary	116 66
" 30.	To I. L. Miller, salary	83 34
" 30.	To Will D. McAbee, salary.....	50 00
" 30.	To Mrs. Nellie M. Coney, salary.....	50 00
" 30.	To Edith Hoffman, salary.....	40 00
" 30.	To Phillip Brodus, salary.....	45 00
" 30.	To Frank W. Tucker, salary.....	83 34
" 30.	To John Owens, salary.....	83 34
Total for the fourth quarter.....		\$2,512 63
Appropriation		\$15,000 00
Total for first quarter		\$4,239 13
Total for second quarter		5,203 04
Total for third quarter		2,830 00
Total for fourth quarter		2,512 63
		<hr/>
		14,784 80
Amount reverting to the general fund.....		\$215 20

Minutes of Transactions

1908

the preceding quarter. This is probably because of the holidays, when people are not paying much attention to hygiene and their health, but on the contrary, are doing those things which are not conducive to health.

The following is a table after the character of tables which are presented quarterly, showing the conditions concerning smallpox during the quarter, and after the smallpox table, there is given the usual typhoid fever table of comparisons:

SMALLPOX COMPARISON FOR FOURTH QUARTER.

Date.	Number of Cases Reported.	Number of Deaths.	Number of Counties Invaded.
October, 1906	118	3	9
October, 1907	75	0	7
November 1906	216	0	14
November, 1907	107	0	14
December, 1906	393	1	19
December, 1907	207	0	18
Total, 1906	727	4	42
Total, 1907	389	0	39

TYPHOID FEVER COMPARISON FOR FOURTH QUARTER.

Date.	Number of Cases Reported.	Number of Deaths.	Number of Counties Invaded.
October, 1906	732	150	73
October, 1907	562	140	
November, 1906	790	135	73
November, 1907	440	76	60
December, 1906	674	79	50
December, 1907	780	69	54
Total, 1906	2,196	364	196
Total, 1907	1,732	285	114

VISITS AND INSPECTIONS.

Fourteen visits and inspections were made by the Secretary during the quarter, one inspection by Miss May Stuart, and two by Dr. Knabe.

October 2, Elwood, Miss Stuart, to look up records of local secretary on account of illegal burials.

October 4, Eminence, to investigate schoolhouse.

October 6, Richmond, on account of survey of county in conjunction with county health officer and county board of health.

October 7, Franklin, account of meeting with school superintendent and school board.

found them obdurate. They were determined in their ignorance to surround the children with unsanitary conditions. They were warned that prosecution would follow if they did.

On November 1 the schoolhouse was duly opened and the schoolrooms heated with ordinary stoves. The visit was not productive, but the conditions and circumstances were made plain. Upon application to the Attorney-General how to enforce the rules, we were instructed to induce some citizen of Eminence to bring action for a mandate to compel obedience to the rule. Immediately a letter was written to Mr. Michael Miller, who was known to be in favor of a sanitary schoolhouse, asking him as a citizen of the district to bring suit, promising that the State Board of Health would back him in every respect. To the present date, no reply has been received, but the Secretary is confident that some citizen of the district will be found, who is sufficiently interested in school hygiene to become active and help in the enforcement of the law.

Richmond.—October 6: I visited Richmond at the petition of the secretary of the county board of health, Dr. Marvel, to make a tour of the county and conduct sanitary inspections. We left Richmond at 9 a. m. on October 6, in an automobile which was furnished by the county board of health. The diphtheria epidemic at White Water was first investigated. A citizens' meeting was held in the schoolhouse, and every phase of the epidemic was discussed. Many accusations were made, but no citizen could be found who would put his statements in writing, accusing the local physician of having carelessly transmitted diphtheria. The prosecutor afterward said there was no chance for prosecution, and therefore the matter was dismissed, after giving a short talk to the high school students upon diphtheria, its prevention and sanitary management.

Leaving White Water, I visited five other places, making sanitary inspections and issuing orders as to what should be done. Altogether, the visit to Wayne County was certainly attended with good results.

Franklin.—October 7 I visited Franklin to deliver an address before the high school about the State Board of Health and its work, and to meet with the school board and school superintendent. A new schoolhouse is contemplated at Franklin, and the result of the conference was to secure from the board a promise that in another year a new building would be begun.

Elwood.—On October 11 I went to Elwood to adjust the mat-

ters pertaining to the illegal burials. Dr. Conrad, health officer of the county, and the prosecutor accompanied me. Investigation of the books of the local health officer, who certainly had not been careful in collecting vital statistics, and also investigating the books of the local undertakers, disclosed the fact that there had been 165 illegal burials in one year. All had been duly recorded on certificates, but had not been registered legally, and the burials had been made without permits. After discussion of all the facts, which took several hours, the two undertakers guilty of making the illegal burials promised to plead guilty to one or two charges and not stand trial. This compromise was accepted by the prosecutor for the district and duly settled.

Danville.—October 12 I visited Danville, to consult with the county secretary of the county board of health. We considered minor nuisances and the violation of quarantine in two instances. The prosecutor was informed in regard to the quarantine violations and settled them to his own satisfaction.

Richmond.—October 15 I went to Richmond to attend the Wayne County Medical Society, which met on that day at the Eastern Insane Hospital. My paper was entitled "Mexican National Hospital." It was kindly received, and after the reading of the other papers and adjournment of the society, I made a sanitary inspection of the hospital, and said investigation can be set forth in one word, "Excellent." Not a single place was found where a sanitary suggestion could be made.

Danville.—October 18 I attended the monthly meeting of the Hendricks County Medical Society, to read a paper entitled "Vital Statistics." The paper was well received and a vote of thanks given and also a vote of confidence in and support of the State Board of Health was unanimously passed.

Muncie.—October 22 I went to Muncie to read a paper before the Delaware County Medical Society, and to take part in the discussions. The title of the paper was "How May the Busy Practitioner Aid in Public Health Work?" This paper reviewed the work of the State Medical Society in establishing a State Board of Health and securing the present health laws, and then went into details in regard to the methods of collecting vital statistics, tabulating and analyzing them. The physicians' duties were also discussed. The paper was well received and a vote of thanks given.

Plainfield.—October 29 I visited Plainfield upon invitation of the local health authorities and of Mr. York, superintendent of the

by electing one of their number chairman to serve for one year, who shall not be the chairman of the Boards of County Commissioners, and they shall elect secretaries to serve one year from January 1st next ensuing their election, and said secretaries shall be licensed physicians, able-bodied, of good moral character, temperate, not addicted to drugs, and if not informed in Hygiene and Sanitary Science, shall speedily inform themselves as required by the rules of the State Board. Secretaries shall be paid whatever appointing boards may determine.

County Boards of Health shall hold regular monthly meetings at the time of holding of the regular monthly meetings of the Boards of County Commissioners, and by adjournment and at other times as they may deem necessary, to consider the health affairs of their respective counties, and to take such action as may be required to promote the public health. They shall be duly called to order as County Boards of Health by their chairmen, and all acts and transactions shall be carefully recorded, in special County Boards of Health minute books, and said minute books shall be carefully kept by the secretaries of County Boards of Health. All records of County Boards of Health shall be kept at the county seats.

County Boards of Health are the conservators of the health of the people of their respective counties, and it is their duty to protect the public health by practically applying before the occurrence of sickness and epidemics, all reasonable methods of disease prevention. They shall remove causes of disease, when known, and take prompt action to prevent and suppress epidemics and the transmission of infection. They shall abate and remove nuisances dangerous to the public health and perform such other duties as may from time to time be required of them by the State Board of Health.

County Boards of Health shall make an annual estimate of health expenses, including an emergency and epidemic fund, and present the same, to their respective County Councils for action. All expenses incident to disease prevention work, which is done outside the corporations of cities and towns, shall be paid from the county health appropriation, and all record books, quarantine cards, printing, stationery and postage shall be paid from said appropriation.

formed in health affairs of their respective neighborhoods. The pay of deputies will be whatever the County Boards of Health will allow.

County Health Officers shall make such reports to the State Board of Health as may be required by said board, and shall answer all letters of inquiry of said board. In case of failure of secretaries of County Boards of Health to fulfill the duties herein prescribed, then the pay of said secretaries shall be refused upon the initiative of their respective boards, or upon the order of the State Board of Health.

CITY BOARDS OF HEALTH.

RULE 3.—City Boards of Health, appointed as commanded in the special laws of 1905 and 1907, shall appoint as secretary one of their number, to serve until his successor is appointed, who shall be a physician of good standing, able-bodied, of good moral character, temperate, not addicted to drugs, and well informed in hygiene. City Boards of Health shall keep careful minutes of all their transactions and it shall be their duty to protect the public health by practically applying, before the occurrence of sickness and epidemics, all reasonable methods of prevention. They shall remove causes of disease, when known, and take prompt action to prevent and suppress epidemics and the transmission of infection. They shall abate and remove nuisances dangerous to the public health and from time to time prepare and present to their respective city council such ordinances pertaining to the public health as they may deem proper. All expenses incident to disease prevention work which is done within the corporations of cities shall be paid from the city treasuries, and all record books, quarantine cards, printing, stationery and postage shall be paid for from said treasuries.

SECRETARIES OF CITY BOARDS OF HEALTH.

RULE 4.—Secretaries of City Boards of Health shall have the title of City Health Officer, and shall be the executive officers of their respective boards. They shall become familiar with and enforce the health laws, all city health ordinances, and the rules of the State Board of Health and the rules and orders of their respective boards. They shall collect and record the vital statistics*

*See Vital Statistics Rules.

of their cities, keep the minutes of the transactions of their boards, hold careful supervision over the health of their cities with special attention to the suppression of epidemics and abatement of nuisances, and shall make regular monthly reports and recommendations concerning the public health to their boards. They shall, in June of each year, make a sanitary inspection of their cities, including public buildings, public water supply, streets, alleys, yards, privies, etc., and shall make written reports of said inspections, copies of which shall be supplied to County Health Officers for them to include in their annual county health reports; and said reports of sanitary inspections, when accepted by the respective city boards, shall be spread of record in the regular minute books.

City Health Officers shall make a special monthly report to their county health officers by the 5th of each month for the month preceding, and said report may be the same which is made to their respective boards and shall give the number of cases and deaths reported from typhoid fever, scarlet fever, smallpox, diphtheria and membranous croup, also information concerning epidemics, closing of schools, nuisances abolished, and, indeed, all obtainable health news. City Health Officers shall make such reports to the State Board of Health as may be required by said board, and shall answer all letters of inquiry of said board. In case of failure of secretaries of city boards of health to fulfill the duties herein prescribed, then the pay of said secretaries shall be refused upon the initiative of their respective boards, or upon the order of the State board of Health.

TOWN BOARDS OF HEALTH.

RULE 5.—Town Boards of Health are ex-officio boards, composed of Town Boards of Trustees, and all acts and transactions of said boards of health shall be separate and distinct from the acts and transactions of Town Boards of Trustees. The members of Town Boards of Health shall meet annually in the first week of December and organize by electing one of their number chairman, who shall *not* be the chairman of the Town Board of Trustees, and they shall elect secretaries to serve one year from January 1st next ensuing their election, and said secretaries shall have the title of Town Health Officers. They shall be able-bodied, of good moral character, temperate, not addicted to drugs, and if not informed in hygiene and Sanitary science, shall speedily inform themselves as required in the rules of the State Board of Health. Secretaries

which occur in saliva. When water is not dispensed at the pump or from water faucets or sanitary drinking fountains, then covered water-coolers shall be used. The drinking vessels shall be of heavy smooth glass, stoneware or porcelain covered metal. Individual drinking glasses or cups are recommended.

Water closets and privies shall be separate for the sexes and kept clean and disinfected at all times. When outdoor privies exist, they shall be well separated for the sexes, they shall be screened, and shall have good walks leading to them.

RAILWAYS, STEAMBOATS AND ALL COMMON CARRIERS.

RULE 23.—It shall be unlawful for any common carrier or any person to knowingly bring into the State of Indiana any person sick or suspected of being sick, with Asiatic cholera, smallpox, yellow fever, typhus fever, diphtheria, membranous croup and scarlet fever, bubonic plague, leprosy, or other communicable disease dangerous to the public health.

RULE 24.—When any railway car, steamboat, vessels or conveyance, coming from a place or locality declared by the State Board of Health, having jurisdiction, as being infected with cholera, smallpox, typhus fever, bubonic plague, leprosy, yellow fever, scarlet fever, diphtheria, membranous croup, or having on board any person or persons affected with any of the above named diseases, enters any port or place in the State of Indiana, such railway car, steamboat, vessel or other conveyance and the crew, officers, passengers, baggage, merchandise, and freight shall be subject to such inspection, disinfection and control as may be ordered by the State Board of Health.

RULE 25.—If any person is found on any railway car, steamboat or other conveyance, who is sick, or reasonably supposed to be sick, with cholera, smallpox, typhus fever, bubonic plague, leprosy, yellow fever or scarlet fever, he or she shall be immediately removed by the health authorities within whose jurisdiction such person is found and isolated and properly cared for until the termination of the disease, and the necessary expense of such isolation and care (if the person so removed is unable to pay the same) shall be a valid claim against and be refunded by the owners, agents or assigns of the railway car, steamboat, vessel or other conveyance from which such person or persons were removed.

that health officers should, as far as possible, send out supplemental reports and secure the return of the same. As before reported, we have tried the experiment in the central office of doing this and have met with very excellent success. In communicating with the mothers, a letter is always forwarded in which the situation is explained, and with rare exceptions the mother appreciates the attention and promptly replies. A few letters, approving the method, have been received from mothers who recognize the very great importance of making legal records of the births of their children.

The following tables show the smallpox and typhoid fever status for the quarter:

SMALLPOX COMPARISON FOR FIRST QUARTER.

Date.	Number of Cases Reported.	Number of Deaths.	Number of Counties Invaded.
January, 1907	232	3	15
January, 1908	240	0	32
February, 1907	241	1	25
February, 1908	122	1	35
March, 1907	221	0	20
March, 1908	284	2	35
Total, 1907	694	4	60
Total, 1908	546	3	102

TYPHOID FEVER COMPARISON FOR FIRST QUARTER.

Date.	Number of Cases Reported.	Number of Deaths.	Number of Counties Invaded.
January, 1907	688	65	50
January, 1908	256	51	42
February, 1907	312	46	45
March, 1907	304	40	33
March, 1908	145	45	40
Total, 1907	1,302	151	128
Total, 1908	593	143	115

Nineteen visits were made by the Secretary during the quarter as follows:

January 4, Lebanon, account of address to Boone County Farmers' Institute.

January 8, Gas City, account of smallpox.

January 14, Scottsburg, account of meeting of Scott County Medical Society, and reading of a paper entitled, "Improvements in the Production of Antitoxin," and also on account of popular lecture upon "The Prevention and Cure of Tuberculosis."

lar lecture in the evening before the Electro-Technique Club upon "The Prevention and Cure of Tuberculosis."

March 23, Francisville, account of scarlet fever.

March 31, Marion, to confer with local health authorities, to address the trustees of the county upon school sanitation, and to make popular address upon "The Prevention and Cure of Tuberculosis."

Detailed accounts of these visits are herewith presented:

January 4, Lebanon: This visit was to address the Boone County Farmers' Institute upon the work of the State Board of Health. A large audience was present in the lecture room of the Methodist church. The lecture was most kindly received, numerous questions were asked and answered and a vote of thanks and confidence in the State Board of Health was extended.

January 8, Gas City: On account of a telephone message from mayor and city health officer, I visited Gas City to see the cases of smallpox which were reported as existing, and which some physicians denied as being smallpox. Five families were visited, and in every instance the disease was smallpox, although in mild form. Quarantine was already established and being properly maintained. It had not been found necessary to establish a pesthouse. The authorities were advised to purchase vaccine and offer free vaccination and to notify the people that vaccination was the only prophylaxis for smallpox.

January 14, Scottsburg: On invitation of the Scott County Medical Society I visited Scottsburg to read a paper before the society, and in the evening, under its auspices, to address a popular audience upon the subject of "The Prevention and Cure of Tuberculosis." The traveling tuberculosis exhibit was mounted in the lecture room of the Methodist church, and almost 300 people visited it in the afternoon. Twelve members of the Scott County Medical Society were present at the meeting of the society. My paper upon "Improvements in the Production of Antitoxin" was illustrated with samples and was well received. In the evening the lecture was attended by a very large audience, which filled the church to overflowing, and I was told many were turned away. A resolution of thanks to the State Board of Health for its work was passed.

January 20, Lafayette: Upon invitation of President Stone, of Purdue University, I visited Lafayette January 20, to lecture to "The Convocation of Students" upon the work of the State Board of Health. It certainly is of the greatest advantage to have

sire to build an addition of two rooms to this building and put in a system of heating and ventilation.

Recommendation.—It is respectfully recommended that the building be condemned, and that if the trustee is allowed to remodel it, he submit his plans for your approval.

After consideration of the above sanitary survey of the schoolhouse at Brooklyn, the following condemnation was adopted:

PROCLAMATION OF CONDEMNATION.

Whereas, It has been shown to the satisfaction of the State Board of Health that the schoolhouse at Brooklyn, Morgan County, Indiana, is unsanitary, and consequently threatens the health and life of the pupils, and also interferes with their efficiency, therefore it is

Ordered, That the schoolhouse at Brooklyn, Morgan County, Indiana, is condemned for school purposes, and shall not be used for said school purposes after June 1, 1908, and if any school trustee or trustees, any teacher or any person uses said schoolhouse for school purposes after the date above named, he or she or they shall be promptly prosecuted as provided in the statutes.

Any person mutilating or tearing down this proclamation shall be prosecuted.

Inspection of schoolhouse at Pittsboro, Hendricks County, Indiana, March 23, 1908, by G. R. Coffin. Wm. Hollingsworth, township trustee:

Site.—The building is located on the main street in the east end of the town. The school grounds comprise about one acre. The yard is fairly well drained. The approach is by gravel and cement walks. Altogether the site is a favorable one. There are no walks to the outbuildings. There is a driven well upon the premises.

Building.—The building is a two-story brick, containing four rooms. It has a stone foundation and a shingle roof. There is no basement to the building. An old one-story frame building has been attached to the rear and is used for school purposes. The main building is unstable. Its walls are cracked and capstones are missing. Downspouts are broken and the walls are damp and unhealthful. Floors are bad and plastering is off in patches. The rooms are heated by stoves. There are no means of ventilation except by the windows and doors. The lighting is very poor.

Primary Room, Grades 1 and 2.—This room is located in the lower part of the west end of the building. Its dimensions are 24 by 30 feet. It is lighted by five windows each 2 by 6 feet. There are two windows in each of three walls, the east, south and north. Forty pupils are in this room.

High School Room.—This room is just above the primary room and is a counterpart of it. There are 30 pupils in this room.

Fifth and Sixth Grades Room.—This room is located in the lower part of the east end of the building. Its dimensions are 24 by 30 feet. It is lighted by five windows, each 2 by 6 feet. Two are in the north, two in the east and one in the south wall. Thirty pupils occupy this room.

be used for said school purposes after June 1, 1908, and if any school trustee, or trustees, any teacher or any person, uses said schoolhouse for school purposes after the date above mentioned, he or she or they shall be promptly prosecuted as provided in the statutes.

Any person mutilating or tearing down this proclamation shall be prosecuted.

Passed by the State Board of Health May 14, 1908.

Sanitary survey of high school building at Franklin, Johnson County, Indiana, May 13, 1908, by J. N. Hurty, M. D.:

Site.—The site is satisfactory in every respect, except that it is not large enough. There is too little space for playgrounds. The area of the site should be at least three times as great. It is well-drained, and well surrounded by outhouses of private residences. The outhouses of this school are of the old vault type, and although kept in passable condition, are objectionable from every point of view.

The Building.—The building is a two-story brick, originally consisting of eight rooms, four in the first story and four in the second. Subsequently, a further addition of eight rooms was made on the south side, and a large high school room constructed over this addition. The stairways are narrow, steep and of many turns. The halls are narrow, and not well lighted. There is no basement under the building, except at one of the corners, where an excavation has been made for a steam boiler. The walls are cracked in various places, the rooms are overcrowded, and many have been divided with partitions in order to secure class-rooms. The ventilation of all the rooms is by windows and doors, the heating is by direct radiation, and not one of the rooms is properly lighted. Under such circumstances it seems unnecessary to make a separate measurement and survey of each room.

Recommendation.—I recommend that this building be condemned as unsanitary and as unfit for school purposes.

After consideration of the above survey of the high school building at Franklin, the following proclamation of condemnation was adopted:

PROCLAMATION OF CONDEMNATION.

Whereas, It has been shown to the satisfaction of the State Board of Health that the high school building at Franklin, Johnson County, Indiana, is unsanitary, and consequently threatens the health and life of the pupils, and also interferes with their efficiency, therefore, it is

Ordered, That the said high school building at Franklin, Johnson County, Indiana, is condemned for school purposes, and shall not be used for said school purposes after June 1, 1908, and if any school trustee, or trustees, any teachers or any person, uses said schoolhouse for school purposes after the date above mentioned, he or she or they shall be promptly prosecuted as provided in the statutes.

Any person mutilating or tearing down this proclamation shall be prosecuted.

Passed by the State Board of Health May 14, 1908.

request the mayors of Milwaukee, Chicago, East Chicago, Gary, Hammond and Michigan City, and the authorities of the towns upon the southern half of the lake, to appoint official representatives. The duty of these representatives would be to study the problems attendant upon the pollution of the lake, and in due time to make such recommendations as their studies might dictate.

Richmond, June 10: On arrival at Richmond I first visited the Eastern Insane Hospital, and made the annual inspection of that institution. The said inspection can be summed up in a very few words by saying, "Found perfect in all respects." I cannot make a single criticism upon the sanitary conditions of Easthaven, and I congratulate the State upon having such an excellent institution, so perfectly conducted. The praise is due Dr. S. E. Smith, the superintendent.

In the afternoon I attended the monthly meeting of the Wayne County Medical Society and gave a talk, reviewing the papers and addresses delivered at the annual meeting of the National Association for the Study and Prevention of Tuberculosis. The talk was well received and thoroughly discussed.

Seymour, June 16: On this date I visited Seymour to attend the Jackson County Medical Society, and to deliver a lecture in the evening upon the subject of "School Hygiene." I did not read any paper before the medical society, but took part in the discussions. A resolution was passed indorsing the work of the State Board of Health and also directing the president to appoint delegates to the International Tuberculosis Congress at Washington. The lecture in the evening was delivered in a public hall, to a large audience, and was well received. A resolution of thanks was passed, and I feel confident that the result of the sanitary survey of the schoolhouse and the address will lead within another year to the erection of a new school building.

French Lick, June 18-19: The annual meeting of the State Medical Society was held at French Lick on the dates herewith named. I attended to meet with the members, to read my annual report upon the progress of hygiene and sanitary science and to do all I possibly could to promote public health among the physicians. Almost three hundred physicians were in attendance. Resolutions were passed requiring the members to appoint delegates to the International Congress on Tuberculosis, and also creating a committee, to be appointed by the members, whose duty it would be to visit the legislature and urge a proper appropriation for the

SPECIAL MEETING.

SEPTEMBER 7, 1908, 12 m.

Called to close up the affairs of the fiscal year ending September 30, 1908, also to attend and conduct the special conference of state and city health departments with the dairymen of Indiana, the said conference having been duly ordered by the board.

Called to order at 12 m.

Present, Drs. Tucker, McCoy, Davis, Hurty.

The Secretary reported that the attendance on the dairy conference was over 200, all parts of the State being represented. The following program was prepared:

FIRST ANNUAL CONVENTION OF STATE AND CITY HEALTH DEPARTMENTS WITH THE DAIRYMEN OF INDIANA.

At Indianapolis, September 7 and 8, 1908. Under the Auspices of
the Indiana State Board of Health.

To Study Sanitary Milk Production and Distribution; the Application of
the Tuberculin Test to Dairy Cattle, and other Problems of
Vital Interest to the Milk Producer and Consumer.

All Sessions will be Held in the Hall of the House of Representatives,
State House.

PROGRAM

Monday, September 7th.

First Session—10 A. M.

Address

Fred A. Tucker, M. D., President Indiana State Board of Health

Announcements.

Resolutions.

Appointment of Committee.

A Producer's View of Dairy Inspection.....

V. D. Macy, Mooresville, Indiana

The Work of a Milk Inspector from My Standpoint.....

John Owens, State Food and Drug Inspector

Some Methods of Interesting City Officials and Dairymen in Clean

Milk....R. A. Elliott, M. D., City Health Officer, Connersville, Indiana

Second Session—2 P. M.

The Milk Situation in Indianapolis.....

Eugene Buehler, M. D., City Health Officer, Indianapolis, Indiana

The Improvement of the Milk Supply.....

Ivan C. Weld, Special Investigator of the Market Milk Supply, Department of Agriculture, Washington, D. C.

- The Production of Wholesome Milk.....
H. S. Chamberlain, President Marion County Agricultural Society
- The Control of Tuberculosis Among Dairy Cattle.....
R. A. Craig, V. M. D., Professor of Veterinary Science, Purdue University.
- The Problem of a Distributing Plant.....
James T. Polk, President The Polk Sanitary Milk Co., Indianapolis

Tuesday, September 8th.

Third Session—10 A. M.

- Contentions Between the Milk Producer and the Inspector.....
J. J. Dolan, Amo, Indiana
- The Relation of the State to Sanitary Milk Production.....
A. W. Bruner, State Food and Drug Inspector
- The Relation of Milk to the Diseases of Children.....
W. G. Swank, M. D., Secretary Montgomery County Board of Health, Crawfordsville, Indiana.
- The Practical and Impractical Side of the Tuberculin Test.....
D. F. Lee, M. D., Indianapolis, Indiana
- Successful vs. Unsuccessful Dairying.....
D. B. Johnson, President State Dairymen's Association

Fourth Session—2 P. M.

- How I Conduct a Sanitary Dairy with Profit.....
D. F. Maish, Proprietor Clover Leaf Farm, Frankfort, Indiana
- The Improvement of the Milk Supply.....
H. E. Barnard, State Food and Drug Commissioner
- How to Secure Co-operation Between the Milk Producer and the Consumer.... Lee C. Hoover, V. M. D., City Milk Inspector, Richmond, Ind.
- What Inspection Has Done for the Dairies of Terre Haute.....
C. C. McIntosh, V. M. D., City Milk Inspector, Terre Haute, Ind.

At the opening session the President of the board read a brief address welcoming the delegates and explaining the attitude of the State Board; also entering into a discussion of the infantile death rate in Indiana and its relation to the milk supply.

The Secretary also welcomed the delegates and gave the assurance that the State Board of Health was not for persecution or even prosecution; that it simply desired to help all of the people, all of the time, toward better health, with its attendant wealth and happiness.

Adjourned to meet the following day at 12 m., to complete unfinished business.

ture, and requires two sharp turns before the upstairs room is entered. All rooms heated by stoves. Ventilation by windows and doors only.

Rooms.—Room 1 is on the first floor. It is 20 by 15 feet, lighted by three narrow windows, each containing eight glass lights 12 by 14 inches. The entire lighting area is therefore 28 square feet. Fifty square feet required; short 22 square feet. Desks old and worn and all of the same size. Ceiling is wood over plaster.

Room 2 is on the first floor, is 24 by 20 feet, lighted by four narrow windows each containing eight glass lights 12 to 14 inches. The entire lighting area is therefore 47.3 square feet. Required area, 80 square feet; shortage, 32.7 square feet. Plastering falling off, ceiling propped up by wooden posts, recently put in. Desks old and worn; floor bad; blackboards good. Ventilation only by windows.

Room 3 is on the second floor. It is a counterpart of Room 1.

Room 4, eighth grade, is on second floor. It is a counterpart of Room 2. Ceiling held up by post recently put in.

Outhouses are dilapidated frame structures; no walks leading to them; nasty and foul and a disgrace.

Well is driven and has an iron pump.

Recommendations.—I recommend that this old, unsanitary, dilapidated schoolhouse be condemned, for the health and lives of the pupils are threatened by the unsanitary features and the same hinder study and progress. The house is a firetrap and this, too, threatens the life of the pupils.

After consideration of the above sanitary survey, the following proclamation was adopted:

PROCLAMATION OF CONDEMNATION.

Whereas, It has been shown to the satisfaction of the State Board of Health, that the schoolhouse at Quincy, Owen County, Indiana, is unsanitary, and consequently threatens the health and life of the pupils, and also interferes with their efficiency, therefore it is

Ordered, That the said schoolhouse at Quincy, Owen County, Indiana, is condemned for school purposes, and shall not be used for said school purposes after September 10, 1908, and if any school trustee, or trustees, any teacher or any person uses said schoolhouse for school purposes, or teaches therein, after the date above mentioned, he or she or they shall be promptly prosecuted as provided in the statutes.

Any person mutilating or tearing down this proclamation shall be prosecuted.

Passed by the State Board of Health September 7, 1908.

This action was taken on the initiative of the Minnesota State Board of Health, based upon the laboratory report of the Minnesota State University, and practical tests of embalmers of national repute.

It is of the utmost importance that uniformity be secured in this respect for the protection of the embalmers, to facilitate interstate transportation of dead bodies and to avoid all possible conflict between the different state health authorities.

To this end the Research Committee of the National Funeral Directors' Association is asking all the state boards of health, which have not already done so, to take similar individual action, and we respectfully request that you will bring the matter before your board and secure the indorsement of said Fluid No. 3 at its next meeting.

Of course, this does not mean that no other fluids shall be indorsed as approved disinfectants, but in conformity with the attitude of the National Conference of State and Provincial Boards of Health, no fluid should be approved without knowledge of the formula, together with the laboratory and practical test statistics, establishing the claims made for it; as was done in the case of the National Fluid No. 3.

The following named state boards of health have already taken such action: Florida, Iowa, Kansas and Minnesota.

In view of the established fact that epidemics have resulted from local interments of unembalmed dead human bodies, owing to a failure to recognize the contagious nature of the disease causing death, is it not of paramount importance that all such bodies, whether for shipment or local interment be disinfected with an approved embalming fluid?

We shall be glad if you will kindly bring this matter, also, to the attention of your board for consideration and such action as their judgment may dictate. Will gladly send you the last proceedings in which our research made its report, if you have mislaid the one sent you by the secretary. (See report on pages from 100 to 112.)

Has your board done any original research work with reference to the germicidal qualities of embalming fluids?

Awaiting the favor of a reply at your early convenience, and thanking you in advance, I am,

Very respectfully yours,

E. EVANS CARRINGTON,

Chairman Research Committee, National Funeral Directors' Assn.

After discussion of the matter it was

Ordered, That the Secretary shall make thorough investigation and report his findings with recommendations at the next regular meeting.

RULES FOR THE ENFORCEMENT OF THE PURE FOOD AND DRUG LAW.

The following rules for the enforcement of the Pure Food and Drug Law were unanimously adopted, singly and as a whole, all conflicting rules being repealed:

which these epidemics occurred. It has been the custom to give warning to all the physicians of a locality as soon as the first specimen of diphtheria, giving a positive report, which comes from such locality is examined at the laboratory. The physicians were advised to look with suspicion upon every case of faucial or tonsillar inflammation, and outfits for the shipment of infectious material through the mails were immediately sent to them, with the offer of all the assistance that might be needed. In most cases this has been gratefully received, and by a wholesale examination of school children in infected schools we have collected interesting statistics with regard to the amount of infection at the beginning of a school term and after school has been in session five or six weeks.

TUBERCULOSIS.

Out of a total of 3,136 specimens, tubercle bacilli were found in 904, the remainder, consisting of 2,232 specimens, giving a negative result, and next to Marion County, which was represented with 132 specimens, Vanderburgh (40), Grant (36), and Madison (30) counties show the highest numbers. Randolph and Wayne counties were represented with 22 specimens each, all of which contained tubercle bacilli. From all the other counties, with the exception of Brown and Ohio, came specimens of sputum in varying number, but many of them were from non-tubercular cases. Peculiar as it may seem, the largest number of sputum examinations were made during the month of July, 1908, there being a total of 321, with 108 positive results. The fewest analyses of this kind (172) were made in December, 1907.

TYPHOID FEVER.

The number of Widal tests made every month from November 1, 1907, to June 30, 1908, varied between 45 and 77. Only since July did the number exceed 100 per month. In August and September 266 Widal tests were made, with 125 positive results in August and 108 in September. Positive reactions with cultures of paratyphoid bacilli were observed, in August 14 cases, in September only 2.

DIPHThERIA.

Diphtheria has existed to a considerable degree through the months of November and December, 1907, and although the disease was for the most part of moderate severity, yet there occurred many deaths, and laryngeal diphtheria was frequently observed.

"colds," etc. The four physicians residing in Plainfield, Drs. Cooper, Carter, Ragan and Thomas, whose courtesy I highly appreciate, assisted in this work. In the primary class a cotton swab was inoculated from the throat of the teacher as well as from the throats of the pupils. All children known to have been exposed to diphtheria, were inspected. Many of these acknowledged having been affected with sore throat for several days, some as long as a week. The number of swabs inoculated from pupils of the Plainfield public school November 25, 1907, was 98. Blood serum cultures prepared from these swabs at the State Laboratory were found to give a positive result in 45 cases, 45.9 per cent. The bacteria corresponded morphologically as well as in culture to Klebs-Loeffler bacilli. This result was reported to the health officer at Plainfield and quarantine advised in case of all persons who either have the disease or are known to have been exposed to infection. While some of these persons, especially children, were apparently in fair health, the fact that pure cultures of diphtheria bacilli could be obtained from their throat seemed sufficient to warrant direct measures against their being permitted to mingle with others. An additional 22 cultures were prepared by the local health officer at Plainfield, Dr. Ernest Cooper, from pupils of the Plainfield Academy, and three of them were found positive. The reason for this low percentage can be found in the fact that all the Academy pupils were over 16 years of age and paid more attention to personal hygiene.

While some persons objected to being quarantined, and censured us because of our stringency, nevertheless I believe that when an infection is known to have been so widely disseminated as was the case in Plainfield it is not the time to argue about the question of the virulence of such bacteria, but to adopt radical measures to protect non-immune persons. Although numbers of physicians considered this epidemic as of a very mild type, I could not altogether agree with them, because several very severe cases, with laryngeal involvement, occurred. Many families were probably spared the loss of some of their members by the prompt action of the physicians, who gave large doses of antitoxin to the patient before the disease had progressed too far and insisted upon the immunization of persons known to have been exposed. I was impressed by the fact that so many children were permitted by their parents to go about with tonsils nearly touching the uvula on either side, the enlarged crypts filled with cheesy material, a veritable hotbed for all kinds of bacterial infection. A number of

laboratory a number of specimens from Plainfield during the month of December, but many of them were for release from quarantine and there seems to have been no marked development of cases in December. The epidemic began some time during the first two weeks of October, and was at its height through the latter part of November, although, as was to be expected, cases have since occurred from time to time in this locality.

NOVEMBER, 1907.

During this month we examined 765 specimens, a larger number than that of any other month since the laboratory was established. The reason for this is to be found in the increase of specimens occasioned by the epidemic of diphtheria.

Sputum—		
Positive	59	
Negative	130	
		189
Diphtheria—		
Positive	267	
Negative	204	
Unsatisfactory	12	
		483
Typhoid—		
Positive	41	
Negative	27	
		68
Urine for tuberculosis—		
Negative	4	
		4
Pus for Tuberculosis—		
Negative	2	
		2
Cystic fluid for Tuberculosis—		
Negative	1	
		1
Urethral discharge for Gonorrhea		
Positive	3	
Negative	4	
		7

a sufficient number of pamphlets with Mr. Blessing, the superintendent of the school, and also some with the physicians for distribution among their patients. After the work at the school was completed, I visited several families with Drs. Yoke and Jennings, respectively, and inoculated cultures from several patients suffering from pharyngeal and tonsillar inflammation.

The total number of specimens obtained at Bridgeport was 37. The physicians stated there would be no public entertainments at Christmas time, and that they had asked the keepers of groceries and other places where people were in the habit of congregating to have their localities frequently disinfected and permit no loitering.

I was very much interested to hear from Dr. Jennings that he saw a peddler walking into a quarantined house where the card was in full view, in spite of the fact that he was told to keep away and attempts were made to close the door on him.

Of the 37 cultures from Bridgeport which were examined the next day, three contained diphtheria bacilli. They were duly reported and quarantined. The school was closed, it being no near Christmas, and was disinfected before it was opened again. The conditions obtaining in Bridgeport have been the best of any encountered during my service of two years as Deputy Health Officer, and no spread of infection is to be feared in that locality, as the people are willing to observe strict quarantine.

I desire to express my appreciation of the courteous assistance rendered by the superintendent of the Bridgeport public school, Mr. Blessing, his assistant, Miss Kirby, and Drs. Yoke and Jennings.

SPECIMENS EXAMINED.

Sputum—		
Positive	50	
Negative	122	
		172
Diphtheria—		
Positive	107	
Negative	96	
Unsatisfactory	22	
		225
Typhoid—		
Positive	28	
Negative	19	
		47

FEBRUARY, 1908.

This month shows an increase of 64 over the number of examinations made in February, 1907.

From our records we note that during the past month we did not receive a single specimen of sputum from 27 counties. From 18 counties came one each, and 18 other counties were represented by two specimens each. Considering the population of these counties, the percentage of physicians practicing there, the large majority of whom are not doing their own laboratory work, and lastly the prevalence of tuberculosis, it becomes at once apparent that the bacteriological division of the State Laboratory of Hygiene is not sufficiently appreciated by the physicians in those regions. Part of the trouble may arise from the forgetfulness of some health officers who do not keep outfits for the collection of sputum on hand, and as a consequence are unable to supply the physicians when requests are made for such outfits. Complaints of this neglect reach us frequently, and we believe all health officers should be instructed that it is just as much a part of their duty to write to us before they give away the last receptacle as it is to keep supplied with birth and death certificates. Another reason why physicians do not send as many specimens, especially of sputum, as should be expected from the high rate of tuberculosis in their communities, is that many of them are afraid to suggest the microscopical examination of sputum because the patient might suspect that the physician thinks of tuberculosis and employ some one else who is willing to say that the disease is merely a "prolonged cold." The consequences of such proceedings are, of course, always disastrous to the patient, who loses in this way a large amount of time, often so large as to render futile any attempt to arrest the disease, which might otherwise have been crowned with success. While it is true that the earliest signs of tuberculosis appear before the bacilli can be found in the sputum, it is to be remembered that the physician rarely gets these cases until there has been more or less destruction of the lungs, with consequent cough and expectoration continued over a period of weeks or perhaps months. To attempt the cure of such conditions without an effort to ascertain the nature of the expectoration, especially when this service is rendered free of charge, seems to us little short of criminal negligence. We have done as much as possible in the way of reaching the physicians, but have not as yet succeeded entirely.

The number of specimens from supposedly diphtheritic throats, one-half of which were found to contain Klebs-Loeffler bacilli, is

Stomach Contents, Cancer—	
Positive	2
	<hr/> 2
Catgut, Infected—	
Positive	2
	<hr/> 2
Pus from Tubercular Abscess—	
Positive	4
Negative	1
	<hr/> 5
Hydrophobia (dog's head)—	
Positive	3
	<hr/> 3
Exudates (aspirated)—	
Negative	6
	<hr/> 6
Gonorrheal Discharge—	
Positive	12
	<hr/> 12
Pathological tissue	6
	<hr/> 6
Guinea-pigs inoculated (reacted)	2
	<hr/> 2
Parasites—Ascaris Alata (A. Mystox)	1
	<hr/> 1
Total	467

OUTFITS SENT OUT.

Tuberculosis	385
Diphtheria	282
Typhoid	280
Malaria	86
	<hr/>
Total	1,033

APRIL, 1908.

With the exception of November, 1907, this month has brought us more work than any month during the past half year. Since there is no epidemic of either diphtheria or typhoid, this record shows that the demand for the work of this department of the laboratory of hygiene is rising steadily. Especially is this to be noticed in the number of examinations other than for tuberculosis, typhoid fever and diphtheria. The great variety of specimens we have examined this month proves that physicians turn to this laboratory in doubtful cases of all kinds. The following are of special interest:

The foregoing figures speak for themselves.

SPECIMENS EXAMINED.	
Sputum—	
Positive	77
Negative	215
	— 292
Typhoid—	
Positive	17
Negative	34
	— 51
Diphtheria—	
Positive	12
Negative	34
	— 46
Malaria—	
Positive	1
Negative	6
	— 7
Gonorrheal Discharge—	
Male:	
Positive	9
Negative	3
	— 12
Female:	
Positive	10
Negative	4
	— 14
Tissue—	
Urine—Pathological	19
Diazo reaction, positive.....	1
Gonococci, positive	1
Tuberculosis, negative	10
	— 12
Pus—	
Streptococci (abscess), positive.....	6
Tuberculosis gland, positive.....	1
Actinomycosis (cow), positive.....	1
	— 8
Feces (tuberculous), negative.....	5
	— 5
Pleural effusion (tuberculous), negative.....	3
	— 3
Hydrophobia—	
Dog, positive	2
Dog, negative	1
Hogs, positive	2
	— 5

Specimen from tubercular larynx—	
Positive	1
	<hr/> 1
Milk (streptococci)	2
	<hr/> 2
Sediment from water cooler (streptococci)	1
	<hr/> 1
Guinea-pigs inoculated	4
	<hr/> 4
Total	482

OUTFITS SENT OUT.

Tuberculosis	481
Typhoid	135
Diphtheria	140
Malaria	59
	<hr/>
Total	815

MAY, 1908.

A total of 465 examinations completed this month is, we believe, a good indication that this department has lost none of its popularity among the physicians of the State of Indiana. The majority of specimens (308) consisted, as usual, of sputum, though the number of positives, i. e., such containing tubercle bacilli, was proportionately smaller than ever. This is to be accounted for by the fact that the physicians now as a rule desire to assure themselves of the absence of tubercle bacilli in suspected cases of pulmonary affections, whereas formerly the sputum was examined in order to verify the clinical diagnosis in advanced cases of tuberculosis. Many specimens of sputum came from patients convalescing from pneumonia, where resolution is delayed and the question of incipient tuberculosis must be considered; some also came from persons who have just passed through an attack of typhoid fever, a disease which is often followed by tuberculosis. Occasionally it happens that tubercle bacilli are found in such cases, proving the existence of tubercular foci in the patient's lungs previous to the attack of pneumonia, etc., but in the majority of these cases a clinical diagnosis of the trouble is now made before the infection has progressed too far.

Of the 59 cases of enteric infection whose blood was submitted for Widal test, two were evidently cases of paratyphoid. They gave all the clinical symptoms of severe typhoid fever, but even in

the later stages of the disease the Widal reaction did not occur with the cultures of bacillus typhosis which we employ for this test. We had hoped to be able to conduct as a routine examination the agglutination test with paratyphoid bacilli on all specimens of blood sent to this laboratory, but since we have only two microscopes and work enough to keep them in constant use, we have been compelled to limit this part of the blood analysis to the test with the ordinary strains of bacillus typhosis. The addition of at least one more microscope (preferably two) to the equipment of this laboratory has become an absolute necessity. Having obtained the services of an extra assistant (without pay) we should have a sufficient number of microscopes to enable each assistant to go ahead with his work without having to wait until one of the other two can spare his instrument for a little while. We hope this deficiency will be supplied very soon, as it means not only a great saving of time, but will permit our giving more careful attention to each individual case.

Only 44 specimens of suspected diphtheria were submitted for examination. This number would have been considerably larger if it had been possible for one of our force to go to New Harmony and make a thorough inspection of the school children, as was done in Plainfield in November, 1907. The conditions obtaining in New Harmony at present are similar to those in Plainfield last year, where we found 45 per cent of the children attending a certain school infected with Klebs-Loeffler bacilli. Under the present conditions New Harmony will keep the disease in a mild form during the summer, and in the fall when school convenes cases of virulent diphtheritic infection will appear again.

Of the two dogs' heads submitted for examination during this month only one contained negri bodies. We are informed of several cases of infection with rabies in horses and cattle, but did not get a chance to examine their brains.

SPECIMENS EXAMINED.

Sputum—	
Positive	87
Negative	221
	— 308
Typhoid—	
Positive ..	21
Negative	36
Doubtful	2
	— 59

Diphtheria—	
Positive	22
Negative	22
	<hr/> 44
Malaria—	
Positive	2
Negative	8
	<hr/> 10
Gonorrheal Discharge—	
Male:	
Positive	6
Negative	0
Female:	
Positive	8
Negative	2
	<hr/> 16
Pus (abscess), streptococcus.....	6
Pathological tissue	12
Pigeon (throat infection).....	1
Cebro—spinal fluid	0
Diplococcus meningitidis	1
Ascitic fluid, tuberculosis—	
Positive	1
Feces, tuberculosis—	
Negative	1
Urine, tuberculosis—	
Negative	1
Dog's head, hydrophobia—	
Positive	1
Negative	1
	<hr/> 2
Milk (cows), streptococci.....	2
Milk (human), streptococci.....	1
	<hr/> 3
Total	<hr/> 465

OUTFITS SENT OUT.

Tuberculosis	421
Typhoid	157
Diphtheria	177
Malaria	88
Total	<hr/> 843

JUNE, 1908.

With the exception of November, 1907, more work was completed during the month of June than in any other 30 days of the present fiscal year.

Since there are at present no extensive epidemics, either of diphtheria or typhoid fever, in Indiana, we feel justified in ascribing the increase in work to the fact that the physicians, recognizing the value of the assistance which they receive from this laboratory, make more frequent use of it.

As usual, the largest contingent of specimens (308) consisted of sputum, but the percentage of cases in which tubercle bacilli could be demonstrated (82) was very small.

Specimens of diphtheria come in occasionally, those of the past month numbering only 38. On incubation 24 of them developed Klebs-Loeffler bacilli.

Of blood specimens to be tested for Widal reaction we received 77, a good agglutination occurring in 23 cases. Many of these specimens were submitted in order to differentiate between typhoid fever and septic conditions, appendicitis, etc., hence the large percentage of negative reactions.

The number of blood smears sent to this laboratory for a diagnosis of malaria was larger than ever (25, as against 11 in previous months), but unfortunately the physicians, before preparing the specimens, had given large doses of quinine to the patient, with the result that the parasites disappeared from the peripheral circulation. Another mistake commonly made, even if no quinine were given, is to prepare the specimens after a chill, when the spores are very small and have not had time to enter the red corpuscles. If the films are prepared shortly before the paroxysm is due, the result is very satisfactory, because the parasites are large, practically filling the corpuscles. Considerable difficulty in the examination of these specimens is caused through carelessness in the preparation of the blood films. Many physicians who are not familiar with our methods, instead of first reading carefully the directions which are supplied with each outfit, simply abstract a drop of blood from the patient's finger, transfer it to a slide or cover glass, and then dry it without spreading or dropping another cover glass over it, thus making the specimen entirely unfit for staining purposes. A great deal of annoyance is also caused by the failure of physicians to properly fill out the record cards. Sometimes they even send the specimens without any data regarding the case. When cards are forwarded to the doctor with the request to return them properly filled out, this is either entirely forgotten or weeks may elapse before the request is complied with. This lack of attention to business methods on the part of the physicians makes it almost impossible for us to keep accurate records. Often specimens come to us

Stomach contents, for cancer—	
Negative	2
Milk—	
Human, streptococci	3
Cow, good	1
	— 4
Pleuritic, etc., exudate—	
T. B. positive.....	1
T. B. negative.....	5
	— 6
Purulent discharge, abscess, etc.—	
T. B. positive.....	2
T. B. negative.....	7
	— 9
Gonorrheal discharge—	
Male:	
Positive	1
Negative	2
Female:	
Positive	14
Negative	5
Positive (eye)	1
	— 23
Feces, T. B. negative.....	6
Urine, T. B. negative.....	11
Malaria—	
Negative	15
Unsatisfactory	4
	— 19
Total	478

OUTFITS SENT OUT.

Tuberculosis	662
Typhoid	180
Diphtheria	53
Malaria	86
	—
Total	981

AUGUST, 1908.

Again we have to record an increase in the work of this department. The number of sputum examinations was about the same as usual, but a little change is to be noted with regard to the Widal tests. Their number has nearly been doubled, while the percentage of positive reaction is considerably higher. In July a little over 34 per cent gave positive results, while our records for August show that 48 per cent of the specimens came from patients ill with

Indiana, who sustained a heavy loss of stock in addition to being bitten by one of the animals. This is the fourth occasion in two years of which we have the records where the loss of animals on a single farm was so great. As a rule there are several animals bitten in a community, but this loss is usually distributed among three or four farms. The history of the epidemic of rabies on Mr. Kaler's farm is as follows:

A stray dog, fox terrier, was in the farmyard one night during the first week in August, killing 21 chickens. It was not at the time known that any other animals had been bitten. On August 29 a large mother hog was found dead, but the owner did not think of rabies, having forgotten about the incident of three weeks ago. September 1 Mr. Kaler was bitten by a small pig which seemed to be sick, dying shortly after, but still no suspicion as to the nature of the trouble was aroused. When, however, two days later another pig from the same litter developed symptoms of a fulminant case of rabies, while a third pig was affected with the paralytic form of the disease, the thought occurred to him that these cases might be rabies. Accordingly he brought the heads of both pigs to the laboratory and a diagnosis of rabies in either case was soon made. Mr. Kaler was advised to take Pasteur treatment. As time progressed more animals died, among them the heifer. At the end of 20 days (from August 29 to September 18) the following animals had succumbed to rabies: Two mother hogs; two shoats, weighing 110 and 125 pounds respectively; five pigs six weeks old; one heifer six months old.

After all, this is but a very small part of the actual loss due to rabies within the last year.

The other specimens examined this month, including 12 cases of tumor, are of no importance as far as the public health is concerned:

Sputum, tuberculosis—

Positive	82	
Negative	202	
		— 284

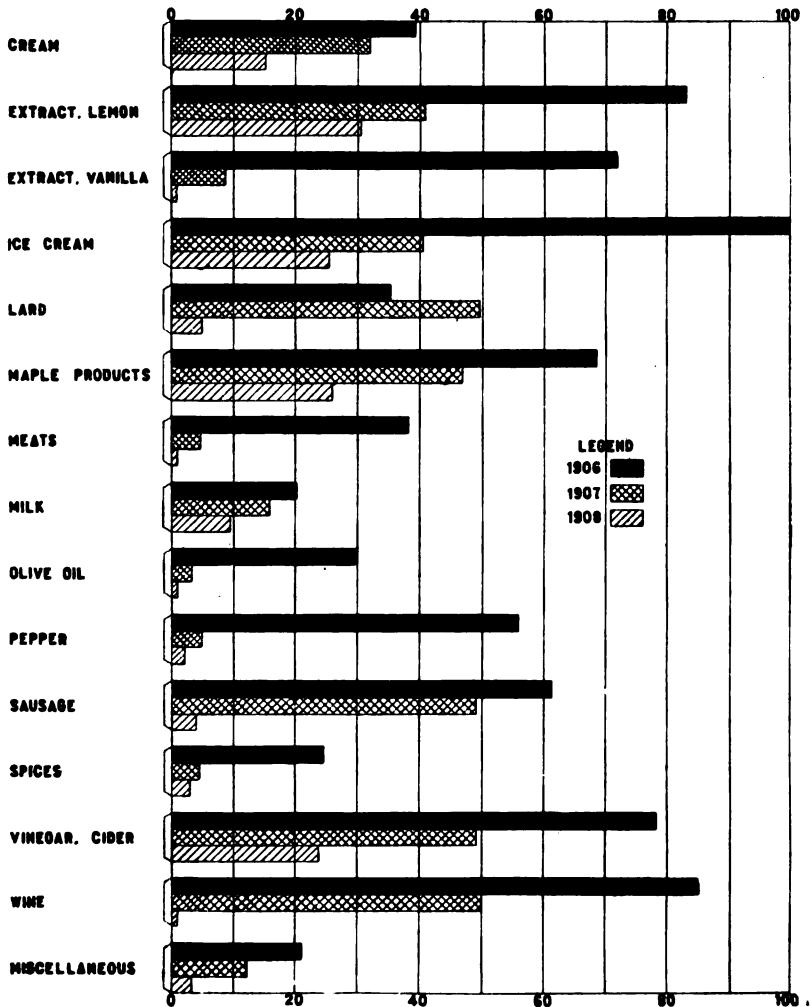
Typhoid Fever, Widal reaction—

Positive	108	
Negative	101	
Atypical	55	
Paratyphoid, positive	2	
		— 266

RESULTS OF ANALYSIS OF FOOD SAMPLES.

Articles Examined.	Good.	Bad.	Total.	Per Cent. of Adul- teration.
Allspice.....	39	4	43	9.3
Baking Powder.....	7	3	10	30.0
Beer.....	62	0	62	0.0
Butter.....	60	29	89	32.6
Butter, Apple.....	4	1	5	20.0
Buttermilk.....	7	0	7	0.0
Canned goods.....	9	0	9	0.0
Carbonated drinks.....	9	7	16	43.7
Soda syrups.....	17	1	18	5.5
Crushed fruits.....	4	4	8	50.0
Catsup.....	3	5	8	62.5
Cider.....	5	1	6	16.6
Cinnamon.....	57	1	58	1.7
Cloves.....	15	0	15	0.0
Condensed milk.....	14	9	23	3.4
Cream.....	36	7	46	15.2
Cream tartar.....	29	6	35	17.1
Extracts, lemon.....	13	11	24	45.8
Extracts, vanilla.....	22	3	25	12.0
Extracts, miscellaneous.....	8	7	15	4.6
Flour.....	15	0	15	0.0
Ginger.....	16	0	16	0.0
Hamburger.....	17	2	19	10.5
Honey.....	12	0	12	0.0
Ice-cream.....	69	25	94	25.5
Jelly.....	8	1	9	11.1
Lard.....	85	5	90	5.5
Maple syrup.....	31	9	40	22.5
Maple sugar.....	2	4	6	66.6
Miscellaneous meats.....	9	0	9	0.0
Milk.....	614	67	681	9.8
Mustard.....	12	0	12	0.0
Pepper.....	88	2	90	2.2
Sausage.....	118	5	123	4.06
Smoked meats.....	34	1	35	2.8
Syrups.....	13	2	15	13.3
Sugars.....	5	0	5	0.0
Vinegar.....	56	67	123	54.4
Vinegar, distilled.....	22	2	24	8.3
Vinegar, malt.....	2	3	5	60.0
Whisky.....	9	8	17	47.0
Wine.....	17	0	17	0.0
Miscellaneous.....	56	2	58	3.5
Total.....	1,733	304	2,037	14.9

DECREASE OF ADULTERATION OF FOODS IN INDIANA



LIST OF PROSECUTIONS BROUGHT UNDER THE NEW FOOD AND DRUG LAW FROM NOVEMBER 1, 1907, TO SEPTEMBER 30, 1908.

COUNTY.	Lab. No.	Name and Address of Defendant.	Illegal Sale of	Information Filed	Date of Trial.	Final Disposition of Case.
Clinton		Frank A. Aughe, Frankfort.	Dirty milk.	Oct. 3, 1907	Oct. 14, 1907	Settled, \$10 and costs.
Clinton		W. H. Weader, Frankfort.	Dirty milk.	Oct. 3, 1907	Oct. 15, 1907	Settled, \$10 and costs.
Clinton	8243	W. A. Huffine & Son, Kirklm.	Lard.	May 30, 1907	Oct. 6, 1907	Settled, \$10 and costs.
Floyd	9977	Geo. Cass, New Albany.	Milk.	Oct. 1, 1907	Oct. 7, 1907	Settled, \$10 and costs.
Greene		Wm. Riser, Bloomfield.	Dirty milk.	Oct. 23, 1907	Oct. 23, 1907	Settled, \$10 and costs.
Greene		Manfield & Shultz, New Castle.	Meat.	Oct. 17, 1907	Oct. 17, 1907	Settled, \$10 and costs.
Henry		Frank Jackson, Peru.	Milk rooms.	Oct. 31, 1907	Oct. 31, 1907	Settled, \$10 and costs.
Henry		Frank Harding, Dugger.	Orange cider.	Oct. 22, 1907	Oct. 22, 1907	Settled, \$10 and costs.
Sullivan		B. E. Dutton, Sullivan.	Maple syrup.	Aug. 14, 1907	Oct. 22, 1907	Settled, \$10 and costs.
Sullivan		Reed & Bailey, Sullivan.	Spirits of camphor.	Aug. 15, 1907	Oct. 22, 1907	Settled, \$10 and costs.
Sullivan		Lawrence Neely, Dayton.	Cream tarar.	June 7, 1907	Oct. 5, 1907	Settled, \$10 and costs.
Tippecanoe	8299	Dreyfus & Co., Lafayette.	Lard.	Aug. 21, 1907	Oct. 5, 1907	Settled, \$10 and costs.
Tippecanoe	8755	Samuel N. Jackson, Lafayette.	Milk.	Oct. 8, 1907	Oct. 9, 1907	Settled, \$10 and costs.
Tippecanoe		Nicholas Gillin, Lafayette.	Milk.	Oct. 1, 1907	Oct. 2, 1907	Settled, \$10 and costs.
Tippecanoe		Nicholas S. Ruffen, Lafayette.	Milk.	Oct. 2, 1907	Oct. 4, 1907	Settled, \$10 and costs.
Tippecanoe		Joseph Van Duzee, Lafayette.	Dirty milk.	Oct. 10, 1907	Oct. 10, 1907	Settled, \$10 and costs.
Tippecanoe		John Spill, Lafayette.	Dirty milk.	Oct. 10, 1907	Oct. 10, 1907	Settled, \$10 and costs.
Tippecanoe		Nicholas Gillin, W. Lafayette.	Milk.	Oct. 30, 1907	Oct. 31, 1907	Settled, \$10 and costs.
Tippecanoe		James Lamm, W. Lafayette.	Pastery exposed.	Oct. 2, 1907	Oct. 2, 1907	Settled, \$10 and costs.
Allen		Nicholas Gillin, Lafayette.	Milk.	Oct. 8, 1907	Oct. 8, 1907	Settled, \$10 and costs.
Allen		Wm. E. Ruchle, Ft. Wayne.	Meat.	Oct. 8, 1907	Oct. 8, 1907	Settled, \$10 and costs.
Allen		Herman Strodel, Ft. Wayne.	Meat.	Nov. 26, 1907	Nov. 26, 1907	Settled, \$10 and costs.
Hancock	9876	M. C. Oudney, Greenfield.	White wax.	Nov. 26, 1907	Nov. 26, 1907	Settled, \$10 and costs.
Hancock		D. W. Reasch, Madsenville.	Emmon flavor.	Nov. 31, 1907	Nov. 31, 1907	Settled, \$10 and costs.
Owen		James R. Lamm, Spencer.	Extract vanilla.	Nov. 26, 1907	Nov. 26, 1907	Settled, \$10 and costs.
Rush	7281	J. A. Craig, Rushville.	Vinegar.	Nov. 22, 1907	Nov. 22, 1907	Settled, \$10 and costs.
Rush	7278	Court House, Rushville.	Alum.	Nov. 22, 1907	Nov. 22, 1907	Settled, \$10 and costs.
Rush	7297	J. A. Craig, Rushville.	Alum.	Nov. 22, 1907	Nov. 22, 1907	Settled, \$10 and costs.
White*		J. A. Craig, Monticello.	Milk.	Nov. 14, 1907	Nov. 14, 1907	Not guilty.
Clay		James Zant, Fortites, Brazil.	Ice cream.	Nov. 1, 1907	Nov. 1, 1907	Not guilty.
Clay	10479	Schwartz & Son, Clay City.	Ice cream.	Dec. 12, 1907	Dec. 20, 1907	Settled, \$10 and costs.
Clay	10515	Martin Jensen, Clay City.	Ice cream.	Dec. 16, 1907	Dec. 17, 1907	Settled, \$10 and costs.
Clay		C. A. Stokes, Cary.	Ice cream.	Dec. 16, 1907	Dec. 18, 1907	Settled, \$10 and costs.
Floyd	10688	P. C. Brown, New Albany.	Spirits of camphor.	Dec. 18, 1907	Dec. 28, 1907	Settled, \$10 and costs.
Floyd			Milk.	Dec. 4, 1907	Dec. 5, 1907	Settled, \$10 and costs.

* Meat slaughtered under unsanitary conditions.

* Unsanitary conditions.

* Meat uncovered in transportation.

* Meat kept in unsanitary condition.

* Contained dirt.

LIST OF PROSECUTIONS BROUGHT UNDER THE NEW FOOD AND DRUG LAW FROM NOVEMBER 1, 1907, TO SEPTEMBER 30, 1908—Continued

COUNTY.	Lab. No.	Name and Address of Defendant.	Illegal Sale of	Information Filed.	Date of Trial.	Final Disposition of Case.
Marion	11075	Louis H. Fehrenback, Indianapolis, Ind.	Milk	April 7, 1908	April 7, 1908	Settled \$10 and costs.
Marion	11115	John J. Horan, Indianapolis, Ind.	Milk	April 10, 1908	April 10, 1908	Settled \$10 and costs.
Marion	11116	John W. Kelly, Indianapolis, Ind.	Milk	April 11, 1908	April 11, 1908	Settled \$10 and costs.
Marion	11118	John G. Kistner, Indianapolis, Ind.	Milk	April 11, 1908	April 11, 1908	Settled \$10 and costs.
Marion	11125	Anna B. Ferguson, Indianapolis, Ind.	Milk	April 11, 1908	April 11, 1908	Settled \$10 and costs.
Marion	11131	Elmer H. Johnson, Indianapolis, Ind.	Milk	April 11, 1908	April 11, 1908	Settled \$10 and costs.
Marion	11137	James P. Stultz, Indianapolis, Ind.	Milk	April 9, 1908	April 9, 1908	Settled \$10 and costs.
Marion	11140	M. C. Shaw & Co., Indianapolis, Ind.	Milk	April 11, 1908	April 11, 1908	Settled \$10 and costs.
Marion	11436	Henry Adamsman, Indianapolis, Ind.	Milk	April 11, 1908	April 11, 1908	Settled \$10 and costs.
Marion	11441	Henry W. Walters, Indianapolis, Ind.	Milk	April 11, 1908	April 11, 1908	Settled \$10 and costs.
Marion	11444	Isadore Lotker, Indianapolis, Ind.	Milk	April 8, 1908	April 8, 1908	Settled \$10 and costs.
Marion	11444	Christian F. Volkmeier, Indianapolis, Ind.	Milk	April 4, 1908	April 4, 1908	Settled \$10 and costs.
Marion	11448	John H. Horan, Indianapolis, Ind.	Cream	April 10, 1908	April 10, 1908	Settled \$10 and costs.
Marion	11473	Elizabeth J. Hadley, Indianapolis, Ind.	Cream	April 3, 1908	April 3, 1908	Settled \$10 and costs.
Marion	11838	Ernest Dietz, Indianapolis, Ind.	Cream	April 6, 1908	April 6, 1908	Settled \$10 and costs.
Marion	11640	Chas. M. McClelland, Indianapolis, Ind.	Milk	April 7, 1908	April 7, 1908	Settled \$10 and costs.
Tippecanoe		Anna Duffy, Lafayette, Ind.	Milk	April 10, 1908	April 10, 1908	Settled \$25 and costs.
Tippecanoe		James Lucas, West Lafayette, Ind.	Unsanitary conditions—milk	April 9, 1908	April 9, 1908	Settled \$25 and costs.
Vigo		John Yopp, Terre Haute, Ind.	Dirty milk	April 10, 1908	April 10, 1908	Settled \$25 and costs.
Vigo		Andrew Rowe, Terre Haute, Ind.	Unsanitary conditions of dairy	April 15, 1908	April 15, 1908	Settled \$25 and costs.
Vigo		Andrew Rowe, Terre Haute, Ind.	Meat sold under unsanitary conditions	April 15, 1908	April 15, 1908	Settled \$25 and costs.
Vigo		George Neitive, Terre Haute, Ind.	Dirty meat store	April 15, 1908	April 15, 1908	Settled \$25 and costs.
Vigo		Silas W. Snodgrass, Terre Haute, Ind.	Dirty bakery	April 15, 1908	April 15, 1908	Settled \$25 and costs.
Vigo		Silas W. Snodgrass, Terre Haute, Ind.	Confectionery exposed	April 15, 1908	April 15, 1908	Settled \$25 and costs.
Vigo		S. V. Murphy, Terre Haute, Ind.	Dirty restaurant	April 24, 1908	April 24, 1908	Settled \$10 and costs.
Vigo		J. M. Fox, Lebanon	Bad meat	April 23, 1908	April 23, 1908	Settled \$10 and costs.
Boone	11346	James Coe, Lebanon	Spirite camphor	April 14, 1908	April 14, 1908	Settled \$10 and costs.
Boone		Geo. W. Oxenhalt, Brazil	Dirty milk	April 20, 1908	April 20, 1908	Settled \$10 and costs.
Clay		Jerome Boyle, Brazil	Unsanitary grocery	May 28, 1908	May 28, 1908	Settled \$10 and costs.
Clay		James Zaralouette, Brazil	Unsanitary ice cream manufactory	May 28, 1908	May 28, 1908	Settled \$10 and costs.
Delaware		Chas. Elliott, Muncie	Unsanitary grocery	May 28, 1908	May 28, 1908	Settled \$10 and costs.
Delaware		Harry Van Werton, Muncie	Lemonade in zinc tub	May 28, 1908	May 28, 1908	Settled \$10 and costs.
Delaware		LeRoy Mahoney, Muncie	Unsanitary grocery	May 28, 1908	May 28, 1908	Settled \$10 and costs.
Delaware		Monroe Huntzinger, Muncie	Unsanitary grocery	May 28, 1908	May 28, 1908	Settled \$10 and costs.
Delaware		Omar Morrison, Muncie	Unsanitary grocery	May 28, 1908	May 28, 1908	Settled \$10 and costs.
Delaware		Wm. Fletcher, Muncie	Unsanitary grocery	May 28, 1908	May 28, 1908	Settled \$10 and costs.
Delaware		Jno. Butterworth, Muncie	Unsanitary grocery	May 28, 1908	May 28, 1908	Settled \$10 and costs.
Delaware		Dave Rock, Muncie	Unsanitary grocery	May 28, 1908	May 28, 1908	Settled \$10 and costs.
Delaware		Edward Dalton, Muncie	Unsanitary grocery	May 28, 1908	May 28, 1908	Settled \$10 and costs.

LIST OF PROSECUTIONS BROUGHT UNDER THE NEW FOOD AND DRUG LAW FROM NOVEMBER 1, 1907, TO SEPTEMBER 30, 1908—Continued.

COUNTY.	Lab. No.	Name and Address of Defendant.	Illegal Sale of	Information Filed.	Date of Trial.	Final Disposition of Case.
Hancock	9838	V. L. Early, Greenfield	White wax.	Oct. 31, 1907	Nov. 7, 1907	Settled, \$10 and costs.
Hancock	9894	C. W. Schmidt, Greenfield	Port sausage.	Oct. 31, 1907	Nov. 7, 1907	Settled, \$10 and costs.
Hancock	9895	E. P. Thayer, Greenfield	Port sausage.	Oct. 31, 1907	Nov. 7, 1907	Settled, \$10 and costs.
Howard	10381	Melroe & Rule, Kokomo	Cream.	Nov. 23, 1907	Nov. 24, 1907	Settled, \$10 and costs.
Madison	10172	Lee's Drug Store, Anderson	Lime water.	Nov. 23, 1907	Nov. 24, 1907	Settled, \$10 and costs.
Madison	10176	A. Zwielach, Anderson	Sausage.	Nov. 1, 1907	Dec. 2, 1907	Settled, \$10 and costs.
Madison	10190	Jesse Stafford, Anderson	Milk.	Nov. 1, 1907	Dec. 2, 1907	Settled, \$10 and costs.
Marion		Pettis Dry Goods Co., Indianapolis	Candies exposed.	Nov. 19, 1907	Dec. 20, 1907	Settled, \$10 and costs.
Marion		Otto C. Beck, 346 Indiana Ave., Indianapolis	Candies exposed.	Dec. 27, 1907	Dec. 27, 1907	Settled, \$10 and costs.
Marion		Wesley J. Laughner, 140 N. Illinois St., Indianapolis.	Candies exposed.	Dec. 27, 1907	Dec. 27, 1907	Settled, \$10 and costs.
Marion		Court House Grocery	Candies exposed.	Dec. 21, 1907	Dec. 21, 1907	Settled, \$10 and costs.
Montgomery		Ben Lewis, Martinsville	Unsanitary grocery store.	Nov. 27, 1907	Dec. 2, 1907	Settled, \$10 and costs.
Owen	10650	Mr. Sloan, Grayfordsville	Meats exposed.	Dec. 19, 1907	Dec. 12, 1907	Settled, \$10 and costs.
Owen		Thomas & Teagardner, Spencer	Ground pepper.	Dec. 17, 1907	Dec. 17, 1907	Settled, \$10 and costs.
Owen	10642	Spencer Mercantile Co., Spencer	Unsanitary grocery.	Dec. 16, 1907	Dec. 17, 1907	Settled, \$10 and costs.
Owen	10647	J. S. Harris, Spencer, Ind.	Cider vinegar.	Dec. 16, 1907	Dec. 17, 1907	Settled, \$10 and costs.
Vigo		John W. Hoff, Terre Haute	Tincture iodine.	Dec. 2, 1907	Dec. 17, 1907	Settled, \$10 and costs.
Vigo		Fred Frey, Terre Haute	Meat.	Dec. 2, 1907	Dec. 2, 1907	Settled, \$10 and costs.
Vigo		Frank B. Shirley, Terre Haute	Pies and cakes exposed.	Dec. 5, 1907	Dec. 2, 1907	Settled, \$10 and costs.
Vigo		Frank B. Shirley, Terre Haute	Butter.	Dec. 5, 1907	Dec. 5, 1907	Settled, \$10 and costs.
Vigo	10739	Auston B. Norris, Terre Haute	Meat.	Dec. 5, 1907	Dec. 5, 1907	Settled, \$10 and costs.
Vigo		Samuel Rosenbaum, Terre Haute	Whisky.	Dec. 5, 1907	Dec. 5, 1907	Settled, \$10 and costs.
Vigo		Samuel Rosenbaum, Terre Haute	Whisky.	Dec. 5, 1907	Dec. 5, 1907	Settled, \$25 and costs.
Vigo		Jacob Goldman, Terre Haute	Whisky.	Dec. 5, 1907	Dec. 5, 1907	Settled, \$25 and costs.
Vigo		Harrison Berkowitz, Terre Haute	Whisky.	Dec. 5, 1907	Dec. 5, 1907	Settled, \$10 and costs.
Vigo		Harrison Berkowitz, Terre Haute	Whisky.	Dec. 5, 1907	Dec. 5, 1907	Settled, \$10 and costs.
White		Wm. J. Barnes, Daville, Ind.	Unsanitary restaurant.	Dec. 11, 1907	Dec. 11, 1907	Settled, \$10 and costs.
Alfords	10568	Danequois Schmitts, Decatur	Fresh sausage.	Dec. 16, 1907	Dec. 11, 1907	Settled, \$10 and costs.
Adams	10569	Simon J. Hain, Decatur	Fresh sausage.	Dec. 16, 1907	Jan. 2, 1908	Settled, \$10 and costs.
Adams	10571	C. W. Adams, Columbus	Tincture iodine.	Dec. 16, 1907	Jan. 2, 1908	Settled, \$10 and costs.
Bartholomew	8831	A. H. Fehring, Columbus	Tincture iodine.	Aug. 3, 1907	Jan. 17, 1908	Settled, \$10 and costs.
Bartholomew	10483	Houser & Updegraff, Columbus	Aqua ammonia.	Dec. 11, 1907	Jan. 17, 1908	Not guilty.
Bartholomew	10502	Wm. W. Snoesberger, Delphi	Lard.	Aug. 3, 1907	Jan. 17, 1908	Not guilty.
Carroll	8580	P. W. VanSundy, Rockfield	Spirits camphor.	Jan. 23, 1908	Jan. 24, 1908	Settled, \$10 and costs.
Davies	11058	Omar Carnes, Odon	Tincture iodine.	Jan. 14, 1908	Jan. 28, 1908	Settled, \$10 and costs.
Davies		Wm. L. Stoy, Odon	Tincture iodine.	Jan. 9, 1908	Jan. 9, 1908	Settled, \$10 and costs.
Davies		Bert E. Sneed, Odon	Tincture iodine.	Jan. 10, 1908	Jan. 10, 1908	Settled, \$10 and costs.

Davies	Joel F. Danner, Elmore	Jan. 9, 1908	9, 1908	Jan. 9, 1908	Settled \$10 and costs.
Fayette	Geo. Demas, Connersville	Jan. 16, 1908	16, 1908	Jan. 16, 1908	Settled \$10 and costs.
Grant	John Soun, Marion	Dec. 16, 1907	16, 1907	Dec. 16, 1907	Settled \$10 and costs.
Grant	T. M. Smith, Upland	Dec. 14, 1908	14, 1908	Dec. 14, 1908	Dismissed by court.
Greene	James Mills, Jasonville	Jan. 7, 1908	7, 1908	Jan. 7, 1908	Settled \$10 and costs.
Greene	N. G. McIntosh, Midland	Jan. 11, 1908	11, 1908	Jan. 11, 1908	Settled \$1 and costs.
Greene	C. D. Downs, Worthington	Jan. 2, 1908	2, 1908	Jan. 2, 1908	Settled \$10 and costs.
Knox	Jacob Seidler, Edwardport	Jan. 3, 1908	3, 1908	Jan. 3, 1908	Settled \$10 and costs.
Knox	Clark W. Ridgeway, Hicknell	Jan. 3, 1908	3, 1908	Jan. 3, 1908	Settled \$10 and costs.
Knox	Cornett & Fox, Hicknell	Jan. 3, 1908	3, 1908	Jan. 3, 1908	Settled \$10 and costs.
Knox	Cornett & Fox, Hicknell	Jan. 3, 1908	3, 1908	Jan. 3, 1908	Settled \$10 and costs.
Owen	Johnson & Co., Freedom	Jan. 31, 1908	31, 1908	Jan. 31, 1908	Settled \$10 and costs.
Putnam	Budger & Green, Greencastle	Jan. 31, 1908	31, 1908	Jan. 31, 1908	Settled \$10 and costs.
Sullivan	Chas. Majors, Dugger	Dec. 17, 1907	17, 1907	Dec. 17, 1907	Settled \$10 and costs.
Sullivan	Chas. E. Wells, Sullivan	Jan. 18, 1908	18, 1908	Jan. 18, 1908	Settled \$10 and costs.
Vanderburgh	Elizabeth Angles, Evansville	June 17, 1907	17, 1907	June 17, 1907	Settled \$10 and costs.
Benton	James W. Rodinon, Fowler, Ind	Mar. 4, 1908	4, 1908	Mar. 4, 1908	Settled \$10 and costs.
Boone	Creath & Silver, Lebanon, Ind	Mar. 4, 1908	4, 1908	Mar. 4, 1908	Settled \$10 and costs.
Boone	Hanna & Co., Thorntown, Ind	Mar. 4, 1908	4, 1908	Mar. 4, 1908	Settled \$10 and costs.
Boone	Knox & Co., Zionsville, Ind	Mar. 5, 1908	5, 1908	Mar. 5, 1908	Settled \$10 and costs.
Boone	Edwin E. Nobes, Flora, Ind	Mar. 5, 1908	5, 1908	Mar. 5, 1908	Settled \$10 and costs.
Carroll	Jos. F. Lankford, Clay City, Ind	Feb. 24, 1908	24, 1908	Feb. 24, 1908	Settled \$10 and costs.
Clay	Joseph Spagnardi, Brazil, Ind	Mar. 5, 1908	5, 1908	Mar. 5, 1908	Settled \$10 and costs.
Davies	D. Gantz & Son, Odon, Ind	Jan. 18, 1907	18, 1907	Jan. 18, 1907	Hung jury.
Davies	Wm. H. Bunch, Plainville, Ind	Dec. 14, 1907	14, 1907	Dec. 14, 1907	Not guilty.
Davies	Harry Hudson, Marion, Ind	Dec. 10, 1908	10, 1908	Dec. 10, 1908	Settled \$10 and costs.
Grant	Jacob Middleton, Marion, Ind	Mar. 14, 1908	14, 1908	Mar. 14, 1908	Settled \$10 and costs.
Grant	A. F. Nolte, Marion, Ind	Feb. 9, 1908	9, 1908	Feb. 9, 1908	Settled \$10 and costs.
Grant	Robt. Shelburn, Worthington, Ind	Feb. 4, 1908	4, 1908	Feb. 4, 1908	Settled \$10 and costs.
Greene	L. H. Mills, Danville, Ind	Feb. 16, 1907	16, 1907	Feb. 16, 1907	Settled \$10 and costs.
Hendricks	W. W. Rinear, Plymouth, Ind	Dec. 9, 1908	9, 1908	Dec. 9, 1908	Settled \$10 and costs.
Miami	W. A. Jones, Peru, Ind	Feb. 4, 1908	4, 1908	Feb. 4, 1908	Settled \$10 and costs.
Morgan	Henry Wick, Martinsville, Ind	Feb. 1, 1908	1, 1908	Feb. 1, 1908	Settled \$10 and costs.
Randolph	E. J. Davis, Winchester, Ind	Jan. 11, 1908	11, 1908	Jan. 11, 1908	Settled \$10 and costs.
Shelby	C. P. Stullinger, Shelbyville, Ind	Feb. 28, 1908	28, 1908	Feb. 28, 1908	Settled \$10 and costs.
Tippecanoe	Madayre Packing Co., Lafayette, Ind	Feb. 28, 1908	28, 1908	Feb. 28, 1908	Settled \$10 and costs.
Vigo	Thos. W. Evinger, Terre Haute, Ind	Feb. 28, 1908	28, 1908	Feb. 28, 1908	Settled \$10 and costs.
Vigo	Frank Smith, Terre Haute, Ind	Mar. 18, 1908	18, 1908	Mar. 18, 1908	Settled \$10 and costs.
Vigo	C. W. Nagel, Terre Haute, Ind	Mar. 23, 1908	23, 1908	Mar. 23, 1908	Settled \$25 and costs.
Vigo	C. W. Nagel, Terre Haute, Ind	Mar. 23, 1908	23, 1908	Mar. 23, 1908	Settled \$25 and costs.
Vigo	Kesler Bros., Terre Haute, Ind	Mar. 27, 1908	27, 1908	Mar. 27, 1908	Settled \$10 and costs.
Vigo	Kesler Bros., Terre Haute, Ind	Mar. 28, 1908	28, 1908	Mar. 28, 1908	Settled \$25 and costs.
Vigo	John F. Davis, Terre Haute, Ind	Mar. 28, 1908	28, 1908	Mar. 28, 1908	Settled \$10 and costs.
Vigo	Christo Bros., Terre Haute, Ind	Mar. 28, 1908	28, 1908	Mar. 28, 1908	Settled \$10 and costs.
Vigo	Christo Bros., Terre Haute, Ind	Mar. 28, 1908	28, 1908	Mar. 28, 1908	Settled \$10 and costs.
Allen	Benton Cassady, West Terre Haute, Ind	April 24, 1908	24, 1908	April 24, 1908	Settled \$10 and costs.
Cass	H. Dull, Ft. Wayne	April 24, 1908	24, 1908	April 24, 1908	Settled \$10 and costs.
Cass	A. B. Maple, Logansport, Ind	April 24, 1908	24, 1908	April 24, 1908	Settled \$10 and costs.
Cass	John Rottermet, Logansport, Ind	April 24, 1908	24, 1908	April 24, 1908	Settled \$10 and costs.
Cass	J. W. Kistler, Logansport, Ind	April 24, 1908	24, 1908	April 24, 1908	Settled \$10 and costs.

LIST OF PROSECUTIONS BROUGHT UNDER THE NEW FOOD AND DRUG LAW FROM NOVEMBER 1, 1907, TO SEPTEMBER 30, 1908—Continued.

COUNTY.	Lab. No.	Name and Address of Defendant.	Illegal Sale of	Information Filed.	Date of Trial.	Final Disposition of Case.
Marion.....	11075	Louis H. Fehrenback, Indianapolis, Ind.	Milk	April 7, 1908	April 7, 1908	Settled, \$10 and costs.
Marion.....	11115	John J. Horan, Indianapolis, Ind.	Milk	April 10, 1908	April 10, 1908	Settled, \$10 and costs.
Marion.....	11116	John W. Kelly, Indianapolis, Ind.	Milk	April 11, 1908	April 11, 1908	Settled, \$10 and costs.
Marion.....	11118	John G. Kistner, Indianapolis, Ind.	Milk	April 7, 1908	April 7, 1908	Settled, \$10 and costs.
Marion.....	11125	Anna R. Ferguson, Indianapolis, Ind.	Milk	April 11, 1908	April 11, 1908	Settled, \$10 and costs.
Marion.....	11131	Edna H. Johnson, Indianapolis, Ind.	Milk	April 11, 1908	April 11, 1908	Settled, \$10 and costs.
Marion.....	11137	James P. Stiltz, Indianapolis, Ind.	Milk	April 9, 1908	April 9, 1908	Settled, \$10 and costs.
Marion.....	11140	M. C. Shea & Co., Indianapolis, Ind.	Milk	April 11, 1908	April 11, 1908	Settled, \$10 and costs.
Marion.....	11438	Henry Adresman, Indianapolis, Ind.	Milk	April 9, 1908	April 9, 1908	Settled, \$10 and costs.
Marion.....	11441	Isadore Lorber, Indianapolis, Ind.	Milk	April 8, 1908	April 8, 1908	Settled, \$10 and costs.
Marion.....	11448	Christian F. Volkening, Indianapolis, Ind.	Cream	April 4, 1908	April 4, 1908	Settled, \$10 and costs.
Marion.....	11473	John H. Horan, Indianapolis, Ind.	Milk	April 10, 1908	April 10, 1908	Settled, \$10 and costs.
Marion.....	11638	Elizabeth J. Hadley, Indianapolis, Ind.	Milk	April 7, 1908	April 7, 1908	Settled, \$10 and costs.
Marion.....	11640	Ernest Dutz, Indianapolis, Ind.	Milk	April 6, 1908	April 6, 1908	Settled, \$10 and costs.
Tippecanoe.....		Chas. M. McDaniel, Indianapolis, Ind.	Milk	April 3, 1908	April 3, 1908	Settled, \$10 and costs.
Tippecanoe.....		Anna Duffey, Lafayette, Ind.	Cream	April 7, 1908	April 7, 1908	Settled, \$10 and costs.
Tippecanoe.....		John VanSegergh, Lafayette, Ind.	Cream	April 10, 1908	April 10, 1908	Settled, \$10 and costs.
Vigo.....		James Lucas, West Lafayette, Ind.	Unsanitary conditions—milk.	April 9, 1908	April 9, 1908	Settled, \$25 and costs.
Vigo.....		John Topp, Terre Haute, Ind.	Unsanitary conditions of dairy	April 10, 1908	April 10, 1908	Settled, \$25 and costs.
Vigo.....		Andrew Rowe, Terre Haute, Ind.	Meat sold under unsanitary conditions.	April 16, 1908	April 16, 1908	Settled, \$25 and costs.
Vigo.....		Andrew Rowe, Terre Haute, Ind.	Dirty meat store	April 18, 1908	April 18, 1908	Settled, \$25 and costs.
Vigo.....		George Nellive, Terre Haute, Ind.	Rotten liver	April 18, 1908	April 18, 1908	Settled, \$25 and costs.
Vigo.....		Stas Georgeopoulos, Terre Haute, Ind.	Dirty bakery	April 15, 1908	April 15, 1908	Settled, \$25 and costs.
Vigo.....		S. V. Woodgrass, Terre Haute, Ind.	Confectionery exposed	April 24, 1908	April 24, 1908	Settled, \$25 and costs.
Vigo.....		J. M. Fox, Lebanon.	Dirty restaurant	April 24, 1908	April 24, 1908	Settled, \$10 and costs.
Boone.....	11346	S. V. Murphy, Terre Haute, Ind.	Bad meat	Aug. 14, 1908	Aug. 14, 1908	Settled, \$10 and costs.
Boone.....		Laura W. Leblanc.	Dirty milk	Aug. 20, 1908	Aug. 20, 1908	Settled, \$10 and costs.
Clay.....		Geo. W. Seewalt, Brazil	Sprinkle canphor	May 28, 1908	May 28, 1908	Settled, \$10 and costs.
Clay.....		Jerome Bogie, Brazil	Unsanitary grocery	May 28, 1908	May 28, 1908	Settled, \$10 and costs.
Delaware.....		James Zarflos, Brazil	Unsanitary ice cream manufactory	May 28, 1908	May 28, 1908	Settled, \$20 and costs.
Delaware.....		Chas. Elford, Muncie	Uncovered hamburger	Aug. 18, 1908	Aug. 18, 1908	Settled, \$10 and costs.
Delaware.....		LeRoy Van Werton, Muncie	Lemonade in zinc tub	Aug. 18, 1908	Aug. 18, 1908	Settled, \$10 and costs.
Delaware.....		LeRoy M. Honey, Muncie	Uncovered meats	Aug. 18, 1908	Aug. 18, 1908	Settled, \$10 and costs.
Delaware.....		Monroe Hunniger, Muncie	Uncovered ice cream cones	Aug. 18, 1908	Aug. 18, 1908	Settled, \$10 and costs.
Delaware.....		Omar Morrison, Muncie	Uncovered bread and meat	Aug. 18, 1908	Aug. 18, 1908	Settled, \$10 and costs.
Delaware.....		Wm. Fletcher, Muncie	Exposed meats	Aug. 19, 1908	Aug. 19, 1908	Settled, \$10 and costs.
Delaware.....		Joe. B. Berthworth, Muncie	Exposed bread	Aug. 19, 1908	Aug. 19, 1908	Settled, \$10 and costs.
Delaware.....		Dave Rock, Muncie	Exposed lemonade	Aug. 18, 1908	Aug. 18, 1908	Settled, \$10 and costs.
Delaware.....		Edward Dalton, Muncie	Exposed lemonade	Aug. 18, 1908	Aug. 18, 1908	Settled, \$10 and costs.

Deliverer	Tom Reall, Muncie	Aug. 1, 1908	Aug. 19, 1908	Settled \$10 and costs
Esau	Unsanitary slaughter house	Aug. 1, 1908	Aug. 19, 1908	Settled \$10 and costs
Elkhat	Milk	Aug. 21, 1908	Aug. 21, 1908	Settled \$25 and costs
Eyette	Unsanitary slaughter house	Aug. 17, 1908	Aug. 17, 1908	Settled \$20 and costs
Eyette	Unsanitary slaughter house	Aug. 17, 1908	Aug. 17, 1908	Settled \$20 and costs
Fountain	Uncovered prepared foods	Sept. 18, 1908	Sept. 18, 1908	Settled \$15 and costs
Fountain	Uncovered prepared foods	Sept. 18, 1908	Sept. 18, 1908	Settled \$15 and costs
Greene	Tincture iodine	Sept. 16, 1908	Sept. 16, 1908	Settled \$10 and costs
Lake	Dirty bakeshop	Sept. 23, 1908	Sept. 23, 1908	Settled \$10 and costs
Lake	Dirty bakeshop	Sept. 23, 1908	Sept. 23, 1908	Settled \$10 and costs
Lake	Unsanitary dairy	Aug. 27, 1908	Aug. 27, 1908	Settled \$10 and costs
Lake	Unsanitary dairy	Aug. 27, 1908	Aug. 27, 1908	Settled \$10 and costs
Laporte	Unsanitary slaughter house	Aug. 25, 1908	Aug. 25, 1908	Settled \$10 and costs
Laporte	Unsanitary slaughter house	Aug. 25, 1908	Aug. 25, 1908	Settled \$10 and costs
Marion	Unsanitary slaughter house	Aug. 25, 1908	Aug. 25, 1908	Settled \$10 and costs
Marion	Aqua ammonia	June 11, 1908	July 31, 1908	Settled \$10 and costs
Marion	Tincture iodine	June 11, 1908	July 31, 1908	Settled \$10 and costs
Marion	Aqua ammonia	June 16, 1908	July 31, 1908	Settled \$10 and costs
Marion	Line water	June 16, 1908	July 31, 1908	Settled \$10 and costs
Marion	Spirits camphor	June 29, 1908	July 31, 1908	Settled \$10 and costs
Marion	Spirits camphor	June 29, 1908	July 31, 1908	Settled \$10 and costs
Miami	Milk	June 23, 1908	July 31, 1908	Settled \$10 and costs
Miami	Milk	June 23, 1908	July 31, 1908	Settled \$10 and costs
Miami	Unsanitary slaughter house	June 9, 1908	June 9, 1908	Settled \$10 and costs
Miami	Unsanitary slaughter house	June 9, 1908	June 9, 1908	Settled \$10 and costs
Morgan	Unsanitary dairy	Aug. 3, 1908	Aug. 3, 1908	Settled \$10 and costs
Morgan	Unsanitary dairy	June 9, 1908	June 9, 1908	Settled \$10 and costs
Morgan	Unsanitary dairy	June 9, 1908	June 9, 1908	Settled \$10 and costs
Morgan	Unsanitary dairy	June 9, 1908	June 9, 1908	Settled \$10 and costs
Owen	Unsanitary dairy	June 11, 1908	June 11, 1908	Settled \$10 and costs
Owen	Unsanitary dairy	June 11, 1908	June 11, 1908	Settled \$10 and costs
Parke	Tincture iodine	June 6, 1908	June 6, 1908	Settled \$25 and costs
Putnam	Cider vinegar	Aug. 27, 1908	Aug. 27, 1908	Settled \$10 and costs
Putnam	Unsanitary bakery	May 26, 1908	May 26, 1908	Settled \$10 and costs
Rush	Pan sausage	April 17, 1908	April 17, 1908	Settled \$50 and costs
Tippecanoe	Maple sugar candy	Aug. 21, 1908	Aug. 21, 1908	Quashed
Tippecanoe	Maple sugar	Aug. 15, 1908	Aug. 15, 1908	Settled \$10 and costs
Vermilion	Unsanitary store	May 16, 1908	May 16, 1908	Settled \$10 and costs
Vermilion	Bad meat	May 15, 1908	May 15, 1908	Settled \$10 and costs
Vermilion	Bad meat	May 15, 1908	May 15, 1908	Settled \$25 and costs
Vermilion	Unsanitary store	May 27, 1908	May 27, 1908	Settled \$10 and costs
Vigo	Bad meat	May 27, 1908	May 27, 1908	Settled \$10 and costs
Vigo	Uncovered venewurst	Aug. 28, 1908	Aug. 28, 1908	Settled \$10 and costs
Vigo	Uncovered venewurst	Aug. 28, 1908	Aug. 28, 1908	Settled \$10 and costs
Vigo	Lemonade	Aug. 28, 1908	Aug. 28, 1908	Settled \$10 and costs
Vigo	Orange cider	Aug. 28, 1908	Aug. 28, 1908	Settled \$10 and costs

BUTTER—LEGAL.

Lab. No.	Manufacturer or Dealer.	Address.	Butyro at 87° C.	Reichert-Meissl.	Halphen Test.	Moisture.	Spoon Test.
9656	F. Haehler and H. Cuttler.	Connersville	41.8	28.59	Negative		
9663	M. Wenger & Son.	Connersville	42.8	24.66	Negative		Very little foam; sputters.
9776	L. T. Smith.	South Bend	42.8	25.10	Negative		Foams.
9796	Brothbeck Bros.	South Bend	43.4	25.90	Negative		Foams.
9803	Salinger Bros.	South Bend	43.9	27.80	Negative		Foams.
9883	Traders Palace Grocery	Plymouth	43.7	24.66	Negative		Foams.
10379	R. A. Elbert.	Mishawaka City	43.6	24.72	Negative		Foams.
10282	J. A. Long.	Union City				12.91	
10283	J. L. Angles	Evansville	42.8	24.59	Negative		Foams.
10332	J. M. Seeneey	Dugger	43.3	25.01	Negative		Foams.
10338	Dr. J. Cooprier.	Madison	42.9	26.30	Negative		Little foam.
10355	L. Burton	Indianapolis	43.8	26.30	Negative		Foams.
10396	Scutt in from	Martinsville	42.5	25.20	Negative		Foams.
10414	Haynes Cafe	Indianapolis	43.4	28.30	Negative		Foams.
10473	Oscar Bowen	Monticello	42.0	26.86	Negative		Little foam.
10474	Wm. Roth	Monticello	44.1	21.98	Negative		Foams.
10477	Henry Kord	Clay City	45.2	26.98	Negative		Foams.
10522	Maryland Grocery Co.	Indianapolis	42.7	24.66	Negative		Foams.
10523	Scutt in from	Indianapolis	44.3	24.85	Negative		Foams.
10675	Chas. W. Davis	Monticello	41.8	27.60	Negative		Foams.
10727	Foster-Fowler Cafe	Indianapolis	44.2	24.36	Negative		Foams.
10729	P. F. Magenheimer	Indianapolis	44.5	25.20	Negative		Little foam.
10820	E. H. Day	Carmel	41.7	25.70	Negative		Foams.
10823	John T. Willet	South Bend	39.8	27.03	Negative		Foams.
10843	Dr. W. D. Cox	Terre Haute	42.1	26.56	Negative		Some foam; sputters.
10895	Jacob Schram	Indianapolis	41.8	26.40	Negative		Foams.
10897	W. S. Bowman & Co.	Peru	43.0	29.70	Negative		Foams.
11079	Leslie Christy, V. S.	Terre Haute	40.2	27.18	Negative		Foams.
11155	Alfred E. Gishers	Warsaw	41.6	26.49	Negative		Foams.
11294	H. E. Young	Huntington	41.9	23.04	Negative	15.75	Very little foam; unusual sample.
11287	E. C. Hall & Bro.	Laporte	42.7	18.84	Negative		Foams.
11293	Frank B. Heut	Laporte	42.0	27.88	Negative		Foams.
11299	August Patterson	Laporte	44.1	22.00	Negative		Foams.
11495	Rayd W. Grandstaff	Laporte	42.0	27.38	Negative		Foams.
11410	John S. Minch	Laporte	42.2	26.17	Negative		Foams.
11416	Rolo's & Garwood	Laporte	41.6	28.79	Negative		Foams.
11489	Ed. E. Thiemann	Goshen	41.5	26.21	Negative		Foams.
11508	Sallinger Bros.	Goshen	42.0	25.61	Negative		Foams.
11526	J. G. Opheim	Goshen	43.0	24.00	Negative		Foams.
11568	Dr. C. E. Ragon	Cinton.					(No arsenic.)

EVAPORATED MILK.

Lab. No.	Brand.	Manufacturer.	Per Cent. Fat.	Per Cent. Solids.	Per Cent. Ash.	Times Condensed.	Per Cent. Fat in Original Milk.
11044		Dixon-Miller Co., Midland	6.9	26.32	1.33	1.9	3.1
11360		Sent in from Indianapolis	8.0				3.1
11808		Sent in from Indianapolis	7.5	76.05	1.70	2.4	3.1
11836		Sent in from Indianapolis	4.2	70.07	1.85	2.6	1.6
11940		Sent in from Sheridan	6.1	24.50	1.34	2.01	3.2
11941	Pet	Helvetia's Milk Condensing Co., Highland, Ill.	7.2	26.18	1.41	1.92	3.5
11942	Carnation	Pacific Coast Cond. Milk Co., Seattle, Wash.	7.6	26.11	1.39	1.98	3.8
11943	Wilson's	Indiana Condensed Milk Co., Sheridan, Ind.	5.8	23.09	1.35	1.98	2.9
11944	Star	Michigan Condensed Milk Co., Lansing, Mich.	6.6	28.60	1.64	2.34	2.8
11945		Van Camp Packing Co., Indianapolis	7.2	29.03	1.56	2.28	3.1
11946		Van Camp Packing Co., Indianapolis	7.4	30.07	1.57	2.24	3.3
12291	Wilson's	Indiana Condensed Milk Co., Sheridan	5.8	22.07	1.36	1.9	3.0
12292	Pet	Helvetia Milk Cond. Co., Highland, Ill.	7.8	28.67	1.59	2.2	3.5
12293		Van Camp Packing Co., Highland, Ill.	6.6	27.41	1.57	2.2	3.0
12294	Highland	Helvetia Milk Cond. Co., Indianapolis	7.0	27.45	1.67	2.3	3.0
12502	Diadem	Helvetia Milk Cond. Co., Highland, Ill.	6.6	26.51	1.58	2.2	3.0
12503	Peerless	Schull & Co., Indianapolis	6.6	30.52	1.76	2.5	2.0
12504	Star	Borden Co., New York	7.4	26.86	1.52	2.1	3.2
12505	Wilson's	Michigan Condensed Milk Co., New York	6.8	28.45	1.52	2.1	3.2
12506	Carnation	Indiana Condensed Milk Co., Sheridan	5.8	22.45	1.30	1.8	3.2
12619	None Such.	Pacific Coast Condensed Milk Co., Seattle, Wash.	7.0	24.71	1.38	1.9	3.6
12817		McNeil & Higgins, Chicago, Ill.	7.2	27.05	1.57	2.2	3.3
12867		Sent in from Kokomo, Ind.	7.8	79.30	1.55	2.21	3.5
			Trace.				

butter fat content. In but one instance has artificial color been found in the ice cream, and in no case has added starch or thickener other than gelatin been observed.

ICE CREAMS—LEGAL.

Lab. No.	Manufacturer.	Address.	Fat Per Cent.
9936	Louis Nebeker	Covington	14.0
9937	Chas. Rennaw	Crawfordsville	8.0
9947	Furnas	Indianapolis	10.0
9949	Fosdick Ice Cream Co.	Crawfordsville	9.6
9950	Ballard Ice Cream Co.	Indianapolis	12.0
9951	J. C. Wampler	Crawfordsville	11.4
9962	Furnas Ice Cream Co.	Indianapolis	8.8
9966	D. J. Chamberlain & Son	Lafayette	10.0
10059	Otto Albert	Plymouth	10.0
10061	Schlusser Bros.	Plymouth	10.8
10114	Michigan City Ice and Cold Storage Co.	Michigan City	10.0
10115	J. Alexander	Michigan City	9.5
10133	Florence Forthoffer	Princeton	12.0
10136	Ed Hallett	Princeton	14.0
10182	Geo. Chobers	Anderson	10.5
10183	Hughes & Jones	Anderson	18.0
10184	W. H. Larmore	Anderson	8.4
10209	Standard Ice Cream Co.	South Bend	8.8
10210	Chas. Giouri	South Bend	8.8
10211	Philadelphia	South Bend	12.0
10217	Sbragia & Bardelli	Hammond	8.6
10218	Woodhull Ice Cream Co.	Hammond	8.4
10223	Bicknell Drug Co.	Hammond	8.4
10224	Brabos Bros.	Hammond	12.4
10225	Woodhull Ice Cream Co.	Hammond	9.2
10367	Campbell Ice Cream Co.	Muncie	11.2
10462	W. T. Exmyer	Peru	10.0
10403	Columbus Ice Cream Co.	Columbus	11.2
10494	John W. Redenack	Columbus	9.2
10497	Laharoko Bros.	Columbus	24.4
10537	Cassell & Son	Vincennes	10.8
10555	Furnas Ice Cream Co.	Indianapolis	9.4
10556	Furnas Ice Cream Co.	Indianapolis	9.4
10824	Jones & Crawford	Brasil	8.0
10839	Jas. Zarefonetis	Brasil	9.6
10896	Jas. Zarefonetis	Brasil	9.2
11361	Amos Gipe	Wabash	10.0
11716	Sent in from Terre Haute		8.0
11735	J. Roumeliat	Terre Haute	8.0
11739	Furnas Ice Cream Co.	Indianapolis	9.2
11845	A. Tillman	Wabash	10.0
11849	Jessup & Antrim	Indianapolis	11.8
11892	Amos Gipe	Wabash	9.0
12080	Roempke & Co.	Martinsville	8.4
12184	John Dollf	Noblesville	13.2
12185	H. Heiny	Noblesville	8.8
12210	A. G. Baldwin	Noblesville	8.2
12468	Furnas	Indianapolis	8.8
12469	Ballard	Indianapolis	10.6
12584	Jas. Zarefonetis	Brasil	9.0
12590	Sent in from Farmersburg		9.0
12591	Sent in from Farmersburg		9.0
12662	Sent in from Huntington		8.0
12676	Leininger's	Elkhart	0.6
12689	Howard L. Hoover	Richmond	15.0
12711	Sanders Smith	Plainfield	8.4
12732	Jas. Zarefonetis	Brasil	8.2
12798	N. R. Coleman	Crawfordsville	9.2
12799	John Wampler	Crawfordsville	8.2
12800	Geo. Toedick	Crawfordsville	14.0
12831	Thiele Bros.	Goshen	10.4
12832	St. Joe Ice Cream Co.	Elkhart	8.1
12878	Sent in from Clay City		12.4
12896	Sent in from Kokomo		8.0
12890	Sent in from Kokomo		8.4
12891	Sent in from Kokomo		12.0
12916	Sent in from Clay City		10.4
12772	Jersey Cream Co.	Newcastle	8.4
12783	Kokomo Sanitary Milk and Ice Cream Co.	Kokomo	8.4

ICE-CREAMS—ILLEGAL.

Lab. No.	Manufacturer.	Address.	Per Cent. Fat.	Remarks.
9948	Sprow.....	Crawfordsville.....	7.4	Below standard.
10840	Jas. Spaguardi.....	Brasil.....	6.4	Below standard.
10982	Sent in from Bicknell.....	.....	4.6	Below standard.
11362	Young & Tillman.....	Wabash.....	7.2	Below standard.
11733	Goldsmith Ice Cream Co.....	Terre Haute.....	7.0	Below standard.
11734	Goldsmith Ice Cream Co.....	Terre Haute.....	7.0	Below standard.
11736	Pearl Ice Cream Co.....	Terre Haute.....	6.0	Below standard.
11737	Peter Georgopoulos.....	Terre Haute.....	7.5	Below standard.
11738	W. H. Sage's Sons.....	Terre Haute.....	6.0	Below standard.
11833	Sent in from Talbot.....	.....	3.6	Below standard.
11844	Amos Gipe.....	Wabash.....	6.4	Below standard.
12109	Harmon Conter.....	Decatur.....	5.6	Below standard.
12202	Kokomo Clover Leaf.....	Kokomo.....	8.1	Artificial color.
12170	Indianapolis Creamery.....	Indianapolis.....	4.0	Below standard.
12500	Marion Ice Cream Co.....	Marion.....	7.6	Below standard.
12519	Exmeyer.....	Peru.....	6.4	Below standard.
12674	Thiele Bros.....	Goeben.....	7.6	Below standard.
12771	Ives & Son.....	Newcastle.....	7.2	Below standard.
12762	Joe E. Bender.....	Cambridge City.....	6.0	Below standard.
12763	Joe E. Bender.....	Cambridge City.....	6.4	Below standard.
12782	Kokomo Creamery Co.....	Kokomo.....	6.4	Below standard.
12796	C. J. Renman.....	Crawfordsville.....	3.2	Below standard.
12797	J. A. Tevebaugh.....	Crawfordsville.....	6.0	Below standard.
12818	Sent in from Clay City.....	.....	5.6	Below standard.
12885	Sent in from Kokomo.....	.....	7.8	Below standard.

FLAVORING EXTRACTS—LEMON.

Thirteen of the 24 lemon extracts analyzed were legal and properly labeled. Eight of the 11 illegal samples were sent in by grocers who suspected the character of their old stock and wished to anticipate the visit of the inspector. But three samples of extract of lemon were purchased which were not properly labeled and of full strength. The stock now being placed in the State is entirely satisfactory, both as to the quality of the goods and style of labeling. A small amount of goods labeled one-fourth, three-eighths, and one-half strength is still on hand. The trade is urged not to purchase such a product, as its use is much more expensive to the housewife than if the goods were of full strength and sold at a higher price.

LEMON EXTRACT—LEGAL.

Lab. No.	Article.	Manufacturer or Retailer.	Address.	Specific Gravity at 20°.	Alcohol by Weight.	Lemon Oil.	Remarks.
9931	Lemon Extract.....	E. C. Harley Co.....	Dayton, Ohio.....	8293	85 6	6 40	Pure.
10045	Lemon Extract.....	G. E. Calloway.....	Cambridge City.....	8220	88 4	5 56	Pure.
10075	Lemon Extract.....	Roads Bros.....	Chicago, Ill.....	8433	90 0	6 21	Pure.
10807	Lemon Extract.....	Wm. A. Bryson.....	Idaville.....	8310	84 9	5 50	Pure.
10467	Lemon Extract.....	Schnull & Co.....	Indianapolis.....	8207	88 4	6 21	Pure.
11016	Lemon Extract.....	Souder's.....	Indianapolis.....	8412	80 9	5 75	Pure.
11033	Lemon Extract.....	J. S. Wells.....	Bicknell.....	8248	87 3	5 18	Pure.
11037	Lemon Extract.....	Milton Wampler.....	Bicknell.....	8493	77 6	5 87	Pure.
11577	Lemon Extract.....	Dieter's & Co.....	Chicago, Ill.....	8477	78 3	5 90	Pure.
10285	Lemon Extract, 1 per cent. Lemon Oil.....	Gro. Chemical Works.....	Evansville.....	8940	53 7	1 06	Correctly labeled.
10864	Lemon Flavor.....	Sent in from Jeffersonville.....		9493	32 6	.18	Correctly labeled.
11595	Lemon Powder.....	Sent in from Vincennes.....					Finely grated lemon rind, sugar, lemon oil.
12040	Terpeneless Extract.....	Sent in from Indianapolis.....					Citral 0.3 per cent., naphthol yellow color.

LEMON JUICE.

Lab. No.	Article.	Manufacturer.	Address.	Remarks.
11236	Lemon juice.....	Davidson & Son.....	Fowler.....	No saccharin, benzoate or salicylic acid.

MISCELLANEOUS EXTRACTS—LEGAL.

Lab No	Kind	Manufacturer or Retailer.	Address.	Specific Gravity at 20° C.	Per Cent. Alcohol by Weight.	Per Cent Oil.	Remarks.
9932	Orange	P. C. Harley Co.	Dayton, Ohio	.8254	87.1	5.85	Pure.
10651	Banana	Souder & Co.	Dayton, Ohio				Correctly labeled.
11027	Strawberry	J. H. Crim	Dayton, Ohio				Correctly labeled.
11364	Strawberry	Crown Cordial & Extract Co.	Edgewood				No preservatives.
11579	Apple	Southern Manufacturing Co.	New York				Pure.
11840	Cinnamon	Colonial Manufacturing Co.	Detroit, Mich	.8367	82.7	5.6	
12840	Cinnamon	Sent in from Marshfield	Detroit, Mich			3.2	
12964	Wintergreen	Souder & Co.	Dayton, Ohio			2.2	

MISCELLANEOUS EXTRACTS—ILLEGAL.

Lab No	Kind	Manufacturer or Retailer.	Specific Gravity at 20° C.	Per Cent. Alcohol by Weight.	Per Cent. Oil.	Color.	Remarks.
12848	Extract Orange	Sent in from Marshfield	.8600	79.3	2.45	Artificial	Below standard
12849	Extract Wintergreen	Sent in from Marshfield			2.4	Artificial	Below standard
12866	Extract Cloves	Sent in from Marshfield			1.4	Artificial	Below standard
12867	Extract Almond	Sent in from Marshfield			0.4	Artificial	Below standard
12868	Extract Nutmeg	Sent in from Marshfield			1.8	Artificial	Below standard
12870	Extract Celery	Sent in from Marshfield			2.0		Not official celery seed extract.
12871	Extract Peppermint	Sent in from Marshfield					Below standard.

FLOURS.

Lab No	Kind	Sent in by	Address.	Protein.	Ash.	Moisture.	Ether Extract.	Nitrites.	Remarks.
10850	Buckwheat	Little Crow Manufacturing Co.	Warsaw						Pure.
11292	Buckwheat	Mrs. R. K. Johnson	Montgeller						Pure.
11309	Wheat	Marten, Marten & Co	New Castle	13.82	.56				Pure.
11390	Buckwheat	McKenzie	Laporte						Bleached.
11404	Buckwheat	A. Patterson	Laporte	7.00	.80	10.97	1.25	Present.	
11413	Buckwheat	John S. Minick	Laporte					Present.	
11462	Buckwheat	L. A. Jackson	Indianapolis					Present.	Pure.
11719	Wheat	Henry & Kerr	Bloomington	12.93		10.89	1.43	Present.	
11909	Gluten	Edward Finn	Michigan City	13.61					
11910	Wheat	Hollowell & Wilkinson	Rushville	13.91					
12015	Wheat	Chas. Cristadoro	Point Loma, Cal	12.07	.47	10.68		Present.	Bleached.
12117	Wheat	Chas. Cristadoro	Point Loma, Cal	12.07					
12118	Wheat	Chas. Cristadoro	Point Loma, Cal	12.80					
12119	Wheat	Chas. Cristadoro	Point Loma, Cal	12.80					
12556	Wheat	R. Cunningham	Muncie.	12.42	.54	10.08		Present.	

CATSUP—LEGAL.

Lab. No.	Kind.	Manufacturer or Retailer.	Remarks.
10898	Catsup.....	J. M. Jennings, North Manchester.....	Properly labeled.
10911	Tip Top.....	Tip Top Catsup Co., Cincinnati, Ohio.....	Properly labeled.
11023	Imperial.....	Franklin McVeagh Co., Chicago, Ill.....	Properly labeled.

CATSUP—ILLEGAL.

8271	Ketchup.....	Wm. Glaze & Son, Dayton Ohio.....	Not properly labeled.
9657	Gold Coin.....	National Spice and Mustard Co., Dayton, Ohio.....	Saccharin present; not properly labeled.
10144	Standard.....	Exley Watkins & Co., Wheeling, W. Va.....	Not properly labeled.
10819	Catsup.....	R. S. Lowery, Rochester.....	Coal tar color; benzoate.
11234	Catsup.....	Price & Lucas, Louisville, Ky.....	Not properly labeled.

CANNED GOODS.

Lab. No.	Kind.	Packer or Retailer.	Remarks.
10336	Corn.....	Franklin Canning Co., Franklin.....	Pure.
10673	Corn.....	Franklin McVeagh & Co., Chicago, Ill.....	Pure.
10729	Pess.....	Empson Packing Co., Longmount, Colo.....	Pure.
10730	Pess.....	Empson Packing Co., Longmount, Colo.....	Pure.
10731	Pess.....	Empson Packing Co., Longmount, Colo.....	Pure.
10938	Mushrooms.....	Pierson Bros., Danville.....	Pure.
10955	Pork and beans.....	Smith Bros., Gosport.....	Pure.
11554	Apples.....	Bessire & Co., Indianapolis.....	Pure.
8266	Oysters.....	Anderson R. Garrett, Mechanicsburg.....	Pure.

APPLE BUTTER—LEGAL.

Lab. No.	Manufacturer or Retailer.	Address.	Remarks.
10317	C. A. Kilmer.....	Rochester.....	Pure.
10630	E. M. Allen.....	Spencer.....	Correctly labeled.
10633	Hulman & Co.....	Terre Haute.....	Correctly labeled.
10644	Hulman & Co.....	Terre Haute.....	Pure.

APPLE BUTTER—ILLEGAL.

11490	Ed E. Tiedeman.....	Goshen.....	Preservative not stated.
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SODA FOUNTAIN PRODUCTS.

The trade in crushed fruits, syrups and miscellaneous soda preparations has assumed large proportions in recent years. These goods are prepared to meet the demands of the soda water dispenser, and have usually contained sufficient preservative to enable them to be kept in stock indefinitely without spoiling. Crushed

MAPLE SYRUPS—LEGAL.

Lab. No.	Manufacturer or Retailer.	Direct Polarization.	Invert Polarization.	Total Ash.	Soluble Ash.	Insoluble Ash.	Total Alkalinity.	Soluble Alkalinity.	Insoluble Alkalinity.	Sucrose.	Lead Acetate Precipitate.
10192	P. N. Hornaday, North Manchester, Ind.	+40.8	-19.6	87	.51	.36	1.36	.68	.68	37.77	Heavy.
10331	Dugger & Co., Dugger, Ind.	+72.8	-25.6	1.28	.77	.51				74.5	
10886	Welsh Bros., Burlington, Vt.	+40.8	-23.8	.43	.32	.11				64.5	
11089	Sent in from Indianapolis.	+55.8	-19.8	.61	.40	.21				57.7	
11474	Sent in from Martinville.	+30.0	-24.2	.77						40.88	
11547	Hall Bros., Vincennes.	+56.4	-20.0	.55	.31	.24				59.2	
11601	Sent in from Mooresville.	+50.4	-19.8	.55	.32	.23				59.2	
11619	Frank Kelly, Indianapolis.	+58.4	-18.0	.61	.41	.20				60.4	
11676	Waco, Johnson, Rochester.	+64.0	-19.5	.67	.53	.15				58.3	
11681	Sent in from Bedford.	+63.2	-23.5	.84	.68	.16				65.6	
11689	J. A. Thomas, Frankfort.	+61.5	-22.8	.63	.44	.18					
11685	McCoy, Peru.	+59.4	-21.5	.63	.43	.21				63.8	
11686	Wines Bros., Peru.	+59.8	-23.3	.61	.43	.18				61.2	
11697	Mr. Morris, Roan.	+57.6	-23.6	.60	.47	.13				60.7	
11698	Woods Little, Peru.	+56.8	-19.8	.64	.32	.32				58.0	
11713	Sent in from Seymour.	+54.0	-20.4	.57	.30	.27				56.4	
11721	Farmer, Dayton, Ind.	+64.4	-20.9	.65	.51	.14				64.6	
11755	Sent in from Columbus.	+46.4	-23.4	.88	.56	.33				53.6	
11756	Sent in from Warsaw.	+62.4	-23.2	.87	.71	.16				63.1	
11801	Sent in from Indianapolis.	+64.0	-23.8	.83	.46	.37				65.7	
11823	Sent in from South Bend.	+63.4	-23.0	.64	.39	.25				65.7	
11822	Sent in from South Bend.	+66.0	-23.0	.57	.43	.14				66.1	
11824	Sent from Madison.	+63.0	-21.4	.75							
11893	McCabb, Bedford.	+63.0	-21.4	.70							
11918	McCabb, Bedford.	+65.8	-23.0	.70							
11919	McCabb, Bedford.	+65.8	-23.0	.70							
11920	C. F. Crawford, Terre Haute.	+67.8	-22.0	.54							
11921	C. E. Abel, Sayre.	+67.8	-22.0	.54							
11921	Farmer, South Bend.	+81.0	-20.9	.75							
12016	Sent from Glenwood.	+63.0	-23.2	.56							
12071	Geo. A. Harms, Depauw.	+70.2	-23.8	.70							
12072	Sent in from Ft. Wayne.	+61.8	-18.7	.59							

MEAT PRODUCTS.

The meat products analyzed during the year have been very largely free from adulteration. The use of preservatives has been almost entirely abandoned, and only occasionally is a dealer found who resorts to preservatives as a substitute for refrigeration.

Of the 19 samples of hamburger steak analyzed two were preserved with sulphurous acid.

HAMBURGER STEAK—LEGAL.

Lab. No.	Manufacturer or Retailer.	Address.
10039	J. Meyers.....	Cambridge City.
10362	Hoffer Bros.....	Muncie.
10385	C. Bromm.....	Evansville.
10391	Yokel & Son.....	Evansville.
10441	H. Ganster.....	Albany.
10449	J. W. Webster.....	Dunkirk.
10577	Batchelder & May.....	Tipton.
10580	Moore & Surface.....	Tipton.
10588	J. P. Bireley.....	Kokomo.
10739	Maher & Hadley.....	Richmond.
10768	Black & Thorpe.....	Warren.
10816	J. E. Shaw.....	Shelbyville.
10833	Francis Gamester.....	Farmland.
11190	Donelson & Broderick.....	Upland.
11192	Lugor Bros. & Co.....	Van Buren.
13055	Liskauf Packing Co.....	Ft. Wayne.
13765	Ben. Parson.....	Cambridge City.

HAMBURGER STEAK—ILLEGAL.

Lab. No.	Manufacturer or Retailer.	Address.	Remarks.
10878	Henry Kammerling.....	Greensburg.	Sulphites present.
10690	George Menzie.....	Greensburg.	Sulphites present.

MINCE MEAT—LEGAL.

Lab. No.	Manufacturer or Retailer.	Address.
10448	R. M. Brotherson.....	Dunkirk.
10626	Berden & Co.....	Toledo, Ohio.
10665	Armour Co.....	Chicago.
10629	Bement, Rea & Co.....	Terre Haute.

LARD.

Eighty-five of the 90 samples of lard analyzed were pure. In five cases beef fat was present, although not declared on the label. This is a great improvement over last year, when 50 per cent of the samples contained cottonseed oil, beet fat, or other stiffening agents.

LARD—LEGAL—Continued.

Lab. No.	Manufacturer or Retailer.	Address.	Butyro Reading at 40° C.	Halphen Test for Cottonseed Oil.	Beef Fat.
11918	Valentine	Terre Haute	49.8		
12003	Sent in from Indianapolis		49.2		
12102	Decatur Packing Co.	Decatur	50.2		
12103	Sim Hain	Decatur	50.0		
12104	True & Runyan	Decatur	49.4		
12105	Dyonas Schmitt	Decatur	51.0		
12106	Frank Lichtle	Decatur	50.0		
12107	Fred V. Mills	Decatur	49.8		
12108	Kuhler & Malts	Decatur	50.0		
12350	Sent in from National Military Home	Indiana	51.0		

LARD—ILLEGAL.

10078	R. A. Ebert	Michigan City	48.3	Negative	Present.
10130	Miller & Hart	Chicago, Ill.	48.3	Negative	Present.
10298	J. F. Kepner	Rochester	53.8	40 per cent.	Present.
12101	Evert & Hite	Decatur	48.8	Negative	Present.
12188	Sent in from Ft. Wayne		52.9	30 per cent.	Absent.

SAUSAGE.

One hundred and eighteen of the 123 samples of sausage examined during the year were pure. Two samples of pork sausage contained beef, two were preserved with sulphites and one contained borax.

SAUSAGES—LEGAL.

Lab. No.	Manufacturer or Retailer.	Lab. No.	Manufacturer or Retailer.
9987	C. Oscar Tribby, Plymouth.	10418	O. J. Sloan, Indianapolis.
9999	W. R. Crowder, Plymouth.	10434	Chas. Ritter, Hartford City.
10036	H. A. Compton, New Castle.	10435	Frank Wilson, Hartford City.
10038	J. Meyers, Cambridge City.	10436	Mike Sauer, Hartford City.
10067	W. J. Shaffering, Michigan City.	10437	Geo. Rapp, Hartford City.
10077	O. E. Keading, Michigan City.	10438	Jas. Keller, Montpelier.
10080	R. A. Ebert, Michigan City.	10439	F. Hedges, Montpelier.
10134	C. W. Corey, Princeton.	10440	H. Ganister, Albany.
10141	M. Tibbet, Princeton.	10442	Henry Daniels, Redkey.
10163	Geo. Hadley, Anderson.	10443	Chas. Geisler, Redkey.
10164	Striker Bros., Anderson.	10447	R. M. Brotherton, Dunkirk.
10167	W. J. Whyte, Anderson.	10450	Davis & Spink, Dunkirk.
10174	G. W. Hadley, Anderson.	10451	Ora Sanders, Middletown.
10175	Goff Bros., Anderson.	10452	B. E. Goff & Son, Middletown.
10178	Joe Phillips, Anderson.	10546	Ed Eckman, Portland.
10179	Joe Phillips, Anderson.	10547	Wm. A. Humphries, Portland.
10180	Masters & Shackelford, Anderson.	10548	Darrah & Hoover, Portland.
10246	C. L. Coppock, Jonesboro.	10549	Ramsey & Son, Portland.
10282	Denkin & Mathias, Van Buren.	10550	Debolt & Robinson, Portland.
10283	J. E. Matchett, Swayzee.	10551	Chas. A. Havilan, Geneva.
10279	Heffner & Dobeson, Summitville.	10552	Amos Ellenberger, Berne.
10280	V. R. Love, Summitville.	10553	Chas. Tremp, Berne.
10281	Marshall & Schaffer, Summitville.	10584	Deck Bros., Noblesville.
10288	Julius Newman, Evansville.	10585	Ora Garrison, Noblesville.
10294	John Fols, Evansville.	10586	W. R. Lyon, Noblesville.
10361	Hoffer Bros., Muncie.	10587	Tom B. Sohl, Noblesville.
10362	Kuhner & Co., Muncie.	10570	Decatur Packing Co., Decatur.
10363	T. Benzenbower, Muncie.	10572	J. Wilson, Arcadia.
10364	Topp & Moore, Muncie.	10573	W. Smalley, Cicero.
10365	Ed Goebel & Co., Muncie.	10574	A. Worm, Indianapolis.
10366	Geo. W. Palmer, Muncie.	10576	Chas. Beck, Tipton.
10366	Evansville Packing Co., Evansville.	10578	Batchelor & May, Tipton.
10367	Schmadel, Evansville.	10579	Moore & Surface, Tipton.
10416	Court House Grocery, Indianapolis.	10584	Walter Ervington, Kokomo.

SAUSAGE—LEGAL—Continued.

Lab. No.	Manufacturer or Dealer.	Lab. No.	Manufacturer or Dealer.
10585	Swift & Co., Chicago.	10879	Link & Bobrink, Greensburg.
10586	W. H. Keck, Kokomo.	10884	J. C. Bates, Winchester.
10587	McKee & Rule, Kokomo.	10914	Hathaway & Son, Winsamac.
10589	Dan Kurtz, Alexandria.	10916	Keplar, Winamac.
10590	Jno. O'Bryant, Alexandria.	10982	Sent in from Madison.
10621	Slagel & Son, Churubusco.	10994	Hugh Banks, Morristown.
10728	Conrad Bowers, Indianapolis.	10985	Harry Kramer, Rushville.
10734	W. A. Bragg, Milton.	10999	Frank Hull, Connersville.
10735	Geo. Schroegegan, Richmond.	11100	Koch & Ringloff, Connersville.
10736	Andrew Renk, Richmond.	11101	W. H. McKenna, Connersville.
10737	J. Scholl, Richmond.	11102	Anthony Stall, Brookville.
10738	Maier & Hadley, Richmond.	11103	Wm. Burkhardt, Brookville.
10741	Mrs. M. Johnson, Indianapolis.	11104	F. A. Mailbaugh, Liberty.
10745	Wm. Dowling, Kentland.	11106	Jas. C. Rose, Liberty.
10748	Chas. Schneider, Kentland.	11189	Donelson & Broderick, Upland.
10756	Montgomery & LeMaster, Goodland.	11191	Lugor Bros. & Co., Van Buren.
10764	Painter & Farling, Bluffton.	11193	J. E. Matchett, Swayzee.
10765	S. H. Church, Bluffton.	11194	C. L. Coppock, Jonesboro.
10767	C. C. Hadley, Bluffton.	11195	Frank King, Jonesboro.
10769	Black & Thorp, Warren.	11196	Hill Bros., Fairmount.
10770	Campbell Bros., Warren.	11197	R. Frits & Son, Fairmount.
10771	D. Peck, Eaton.	11198	Heffner & Co., Summitville.
10817	C. S. Reimcke, Shelbyville.	11483	Geo. Sanders & Son, Greentown.
10821	I. H. Beeson, Carmel.	12552	Thomas Sohl, Noblesville.
10877	McConnack & Richey, Greensburg.	12697	Ruth & Co., Fort Wayne.

SAUSAGES—ILLEGAL.

Lab. No.	Kind.	Manufacturer or Retailer.	Remarks.
10410	Pork sausage.....	T. J. Sloan, Indianapolis.....	Beef present.
10416	Sausage.....	Court House Grocery, Indianapolis.....	Beef present.
10881	Pan sausage.....	Geo. Mensie, Greensburg.....	Sulphites present.
13027	Pork sausage.....	Harry Matske, Indianapolis.....	Sulphites present.
10766	Pork Sausage.....	Chas. Kaltwasser, Bluffton.....	Boron compound present.

SMOKED MEATS.

Of the 35 smoked meats such as bacon, bologna, ham, etc., one sample only was adulterated. In this case borax was used as a preservative.

SMOKED MEATS—LEGAL.

Lab. No.	Kind.	Manufacturer or Retailer.	Address.
10316	Bacon.....	C. A. Kilmer.....	Rochester.
10899	Bacon.....	J. M. Jennings.....	North Manchester.
10902	Bacon.....	L. A. Landos.....	North Manchester.
10000	Bologna.....	W. R. Crowder.....	Plymouth.
10162	Bologna.....	John Kalberer.....	Lafayette.
10328	Bologna.....	John B. Lurer.....	Vincennes.
10545	Bologna.....	Stephenson Bros.....	Portland.
12701	Bologna.....	O. J. Tillett.....	Peru.
12709	Bologna.....	Swift & Co.....	Chicago.
10166	Ham.....	W. J. Whyte.....	Anderson.
10177	Ham.....	L. Wickel.....	Anderson.
10299	Ham.....	— Kepler.....	Rochester.
10624	Ham.....	C. H. Long.....	Churubusco.
10671	Ham.....	Fraser & Co.....	Monticello.
10681	Ham.....	Line & Christy.....	Monticello.
10685	Ham.....	Watkins & Son.....	Monticello.
10746	Ham.....	Wm. Dowling.....	Kentland.
10749	Ham.....	Chas. Schneider.....	Kentland.
10761	Ham.....	Peter Buch.....	Goodland.
12549	Ham.....	Kingan & Co.....	Indianapolis.

VINEGAR—ILLEGAL.

Lab. No.	Retailer or Manufacturer.	Address.	Acidity.	Solids.	Ash.	Alkalinity.	Polarization.	Lead Acetate Precipitate.	Color.	Remarks.
9996	Farmer's sample.	Mooreville	1.22	1.405	0.200	12	-8	Heavy	Normal	Watered.
9997	Farmer's sample.	Mooreville	2.27	1.420	0.320	30	-1.4	Heavy	Normal	Watered.
9998	Farmer's sample.	Mooreville	2.63	1.110	0.235	18	0	Heavy	Normal	Watered.
10056	Old Homestead Blended Vinegar Co.	Marion	3.82	0.215	0.038	16	+2	None	Caramel	Not a blended vinegar.
10094	W. T. Cutsinger.	Franklin	2.60	0.975	0.200	16	+1	Heavy	Normal	Below standard.
10227	Sent in from Laporte.	Franklin	2.23	1.650	0.215	24	-0	Light	Normal	Below standard.
10383	Taber Bros.	Evansville	3.85	2.990	0.390	34	-1.6	Heavy	Normal	Below standard.
10499	Farmer's sample.	Louisville	3.28	1.300	0.300	30	±0	None	Caramel	Not a blended vinegar.
10478	Price & Lucas Blended	Louisville, Ky.	4.70	0.262	0.055	26	-1.6	Heavy	Normal	Below standard.
10526	Goble Bros.	Greenfield	2.53	1.460	0.245	22	-9.4	Heavy	Normal	Low in acidity.
10705	Farmer's sample.	Noblesville	2.79	5.905	0.245	22	-1.0	Heavy	Normal	Below standard.
10706	Farmer's sample.	Noblesville	2.79	5.905	0.350	34	-1.0	Heavy	Normal	Below standard.
10707	Farmer's sample.	Noblesville	5.94	1.500	0.350	34	-1.0	Heavy	Normal	Low in solids.
10732	Price & Lucas	Louisville, Ky.	5.53	1.450	0.315	28	-8	Heavy	Normal	Below standard.
10838	Collier & Thompson	Brazil	3.56	0.215	0.037	6	±0	None	Caramel	Not a cider vinegar.
10897	Sent in from Brazil	Brazil	3.58	2.310	0.340	34	-1.4	Heavy	Normal	Below standard.
10934	Price & Lucas	Danville	2.55	3.030	0.373	38	-4.2	Heavy	Normal	Below standard.
10959	Price & Lucas	Louisville, Ky.	3.70	0.345	0.020	6	±0	None	Caramel	Not a cider vinegar.
10962	Price & Lucas	Goport	3.90	0.190	0.030	6	±0	None	Caramel	Not a cider vinegar.
11065	Price & Lucas	Louisville, Ky.	4.56	0.468	0.060	5	±0	None	Caramel	Not a cider vinegar.
11038	Bierbaum Bros.	Vincennes	3.92	0.400	0.050	8	±0	None	Caramel	Not a cider vinegar.
11218	Robt. Shelburn	Worthington	5.07	0.221	0.038	6	±0	None	Caramel	Not a cider vinegar.
11233	Cooper & Hansford	Worthington	2.90	0.215	0.034	6	±0	None	Caramel	Not a cider vinegar.
11267	Sent in from Clark's Hill	Worthington	3.75	1.900	0.350	38	-8	Heavy	Normal	Below standard.
	Sent in from Clark's Hill		3.01	1.450	0.13	8	±0	Heavy	Normal	Below standard.
	Sent in from Clark's Hill		2.56	1.635	0.233	16	±0	Heavy	Normal	Below standard.
	Sent in from Clark's Hill		4.44	1.049	0.250	24	±0	Heavy	Normal	Below standard.
	Sent in from Clark's Hill		2.47	1.812	0.210	18	-2.8	Heavy	Normal	Below standard.
	Sent in from Clark's Hill		3.00	1.282	0.218	24	-4	Heavy	Normal	Below standard.
	Sent in from Clark's Hill		3.90	1.341	0.273	26	±0	Heavy	Normal	Below standard.
	Sent in from Clark's Hill		5.63	0.364	0.049	6	+1.2	None	Caramel	Not a cider vinegar.
11271	J. F. Sturker	Paoli	3.09	0.700	0.322	34	-1.6	Medium	Normal	Below standard.
11280	Robt. B. Wark	Valparaiso	3.05	2.684	0.286	8	±0	Heavy	Normal	Low in alkalinity.
11331	Franklin McVeagh	Chicago, Ill.	3.60	2.385	0.206	18	+4	None	Caramel	Not a cider vinegar.
11401	A. Patterson	Laporte	4.77	0.250	0.045	2	+8	None	Caramel	Not a cider vinegar.
11464	A. E. Wyosong	Gothen	4.23	0.258	0.071	4	±0	None	Caramel	Not a cider vinegar.
11469	R. Shookman & Son	Gothen	4.23	0.281	0.060	12	+4	None	Caramel	Not a cider vinegar.
11598	Sent in from Clark's Hill		3.03	1.200	0.239	20	-1.2	Medium	Normal	Below standard.
11599	Sent in from Clark's Hill		2.61	1.100	0.250	20	-4	Medium	Normal	Below standard.
11600	Sent in from Clark's Hill		2.64	1.070	0.237	24	-2	Medium	Normal	Below standard.
11608	John P. Wolf.	Wabash	2.13	1.500	0.306	36	-2	Medium	Normal	Below standard.

11609	John P. Wolf.	Wabash.	3.35	2.965	0.345	34	-1.6	Medium	Normal	Below standard.
11675	Sent in from Lafayette.		3.15	0.924	0.222	30	±0.	None	Normal	Below standard.
11691	Sent in from Danville.		3.67	0.394	0.055	8	+ .4	Heavy	Caramel	Not a cider vinegar.
11722	W. T. Cutsinger.	Franklin.	1.73	1.380	0.262	26	- .8	Heavy	Normal	Below standard.
11723	W. T. Cutsinger.	Franklin.	1.25	2.775	0.474	46	- .8	Heavy	Normal	Below standard.
11724	W. T. Cutsinger.	Franklin.	1.95	1.100	0.317	30	- .2	Heavy	Normal	Below standard.
11725	W. T. Cutsinger.	Franklin.	2.34	1.707	0.303	36	-1.0	Heavy	Normal	Below standard.
11726	W. T. Cutsinger.	Franklin.	2.36	1.287	0.321	32	- .4	Heavy	Normal	Below standard.
11727	W. T. Cutsinger.	Franklin.	3.15	1.373	0.348	34	- .6	Heavy	Normal	Below standard.
11825	Sent in from Noblesville.		2.99	1.100	0.305	30	±0.	Light	Normal	Below standard.
12043	Sent in from Indianapolis.		0.66	2.055	0.340	82	-1.6	Heavy	Normal	Below standard.
12066	Sent in from Indiana.		1.92	0.812	0.287	14	±0.	Medium	Normal	Below standard.
12578	Sent in from Elmore.		1.64	1.670	0.235	20	-2.0	Light	Normal	Not a vinegar.
12580	Sent in from Bloomington.		1.70	2.130	0.435	32	-1.8	Light	Normal	Below standard.
12754	Sent in from Martinsville.	Plainfield.	2.89	2.012	0.295	26	-1.6	Medium	Normal	Below standard.
12757	Needham.	Greencastle	2.38	2.333	0.345	32	- .8	Heavy	Normal	Below standard.
12764	S. A. Hazelett.	Cambridge City.	2.75	2.817	0.350	34	- .8	Medium	Normal	Below standard.
12813	Farmer.	Indianapolis.	0.86						Caramel	Below standard.
12835	Lichtenhaler Grocery.	Indianapolis.	4.40	0.230	0.045	6	±0.	None		Distilled vinegar.
12398	Sent in from Knightstown.		2.91							Below standard.
12900	Sent in from Knightstown.		3.44							Below standard.
12904	Sent in from Knightstown.		3.91							Below standard.
12906	Sent in from Knightstown.		2.54							Below standard.
12907	Sent in from Knightstown.		2.36							Below standard.
12909	Sent in from Knightstown.		3.62							Below standard.

DISTILLED VINEGARS—LEGAL.

Lab. No.	Kind.	Manufacturer or Retailer.	Address.	Acidity.	Solids.	Ash.	Alkalinity.	Polarization.	Lead Acetate Precipitate.	Color.
10496	Colored	Frohman & Co.	Columbus	4.00	0.240	0.040	3	+0.	None	Caramel.
10835	White	Bloomington Pickle Co.	Bloomington	4.20	0.015	0.004		+0.	None	None
10905	Colored	Sent in from Clay City		4.32				+0.	None	Caramel.
10931	Cider flavored	C. E. Edwards	Dayville	4.31	0.440	0.050	2	+0.	None	Caramel.
10942	Blended	J. L. Darnell	Dayville	4.03	0.151	0.028	4	+0.8	None	None
12061	White	Fisher & Son	Noblesville	4.15	0.150	0.025	6	+0.	None	None
10904	Colored	C. A. Schrader	Indianapolis	4.49	0.400	0.055	2	+0.	None	Caramel.
12115	Colored	Rooder & Co.	Sandborn	4.88	0.308	0.059	2	+0.	None	Caramel.
12116	White	Gregory, Wood & Hunsate	Sandborn	4.20	0.197	0.015	2	+0.	None	None
12120	Colored	Baler Bros.	Sandborn	4.00	0.215	0.055	2	+1.2	None	Caramel.
11221	Colored	Cooper & Housford	Worthington	4.61	0.500	0.075	6	+1.	None	Caramel.
11224	Colored	Kohle, Walls & Bauer	Worthington	4.50	0.374	0.027	2	+1.8	None	Caramel.
11314	Colored	Keuler & Horn	Indianapolis	4.34	0.334	0.042	2	+1.2	None	Caramel.
11569	Colored	Sent in from South Bend	Bicknell	4.02	0.300	0.035	4	+0.	None	Caramel.
11570	White	Sent in from Thorntown		4.45	0.165	0.050	1	+0.	None	None
11776	Colored	Price & Lucas	Louisville, Ky.	4.55	0.152	0.030	1	+0.	None	None
12632	Colored	Sent in from Indianapolis.		4.62	0.500	0.157	8	+4.	None	Caramel.
		Sent in from Indianapolis.		5.72						
				7.84						

DISTILLED VINEGARS—ILLEGAL.

Lab. No.	Manufacturer or Retailer.	Address.	Acidity.	Solids.	Ash.	Alkalinity.	Polarization.	Lead Acetate Precipitate.	Color.
11215	Price & Lucas	Louisville	3.81	0.372	0.050		+0.	None	Caramel.
11344	Luther Cross	Thorntown	3.31	0.185	0.037		±1.		

NOTE.—Both samples below standard.

MALT VINEGARS—LEGAL.

11245	Ed. Marten	Thorntown	4.13	2.106	0.257	24	-0.8	Slight	Normal.
10594	Molasses vinegar, Sprague Warner & Co.	Chicago	4.52	3.065	0.430	48	+1.8	Heavy	Normal.

WINE.

Lab. No.	Manufacturer or Dealer.	Kind.	Alcohol Per Cent. by Weight 17.5° C.	Alcohol Per Cent. by Vol. 20° C.	Ext. Grams per 100 C. C.	Specific Gravity of Wine.	Ash. Per Cent.	Volatile Acids.	Fixed Acids.	Total Acids.	Potassium Sulphite.	Potassium Bitartrate.	Free Tartaric Acid.	Total Tartaric Acid.	Preservatives.	Color.
9843	Sent in from Indianapolis.	Qatawba.	11.44		13.72											
9844	Sent in from Indianapolis.	Sherry.	16.84		5.05											
9845	Sent in from Indianapolis.	Madira.	14.17		16.29											
9846	Sent in from Indianapolis.	Tokay.	15.60		18.11											
9847	Sent in from Indianapolis.	Anglica.	16.24		14.44											
9848	Sent in from Indianapolis.	Ungaral.	15.50		16.93											
9849	Sent in from Indiana oils.	White Port.	13.14		17.14											
9850	Sent in from Indianapolis.	Irondequoit.	13.36	8.61	2.25			0.0432								Natural.
10557	Sent in from Indianapolis.	Concord.			3.77										None.	Natural.
11553	Sent in from Elmore.	Port.	9.48	15.40	24.35	1.0715	0.350	0.0744							None.	Natural.
11634	Sent in from Indianapolis.	Blackberry.		13.33	25.76		0.365	0.0504							None.	Natural.
11692	Sent in from Indianapolis.	Port.		13.53	22.95										None.	Natural.
12077	Sent in from Indianapolis.	Blackberry.		10.70	22.22										None.	Natural.
12600	Sent in from Bern.	California Port			11.19		0.305								None.	Natural.
12731	Sent in from Indianapolis.			19.20	11.48	1.0184	0.274	0.768	0.6240	0.7200	0.1096	0.248	0.1850	1.290	None.	Natural.
12908	Sent in from Hammond.			10.06	3.02	0.9975	0.347	0.2880	0.9300			0.501			N. ne.	Natural.

BEER.

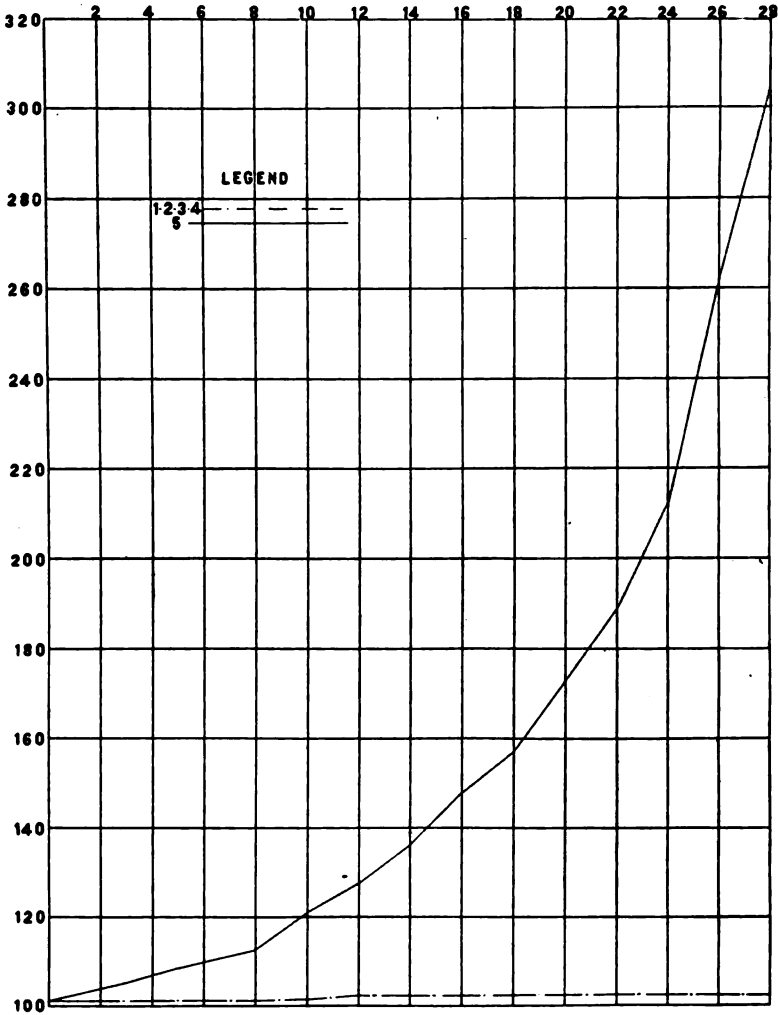
Lab. No.	Manufacturer or Dealer.	Address.	Alcohol by Weight.	Alcohol by Volume.	Ext. Grams per 100 C. C.	Ash Per Cent.	Per Cent. Ext. Original Wort.	Degree of Fermentation.	Specific Gravity at 20° C.	Phosphoric Acid.	Volatile Acids as Acetic.	Direct Polarization.	Indirect Polarization.
9233	Huntington Brewing Co.	Huntington.	2.7	3.3	3.90								
9391	Chas. Schaeffer.	Corydon.	2.8	3.5	5.10								
9738	W. M. Draper.	Sullivan.	3.4	4.3	6.81								
10521	S. W. Phillips.	Brasil.	3.0	3.7	6.92								
11780	Sent in from South Bend.		3.7	4.6	3.94								
12694	Sent in from Winamac.		2.4	3.0	3.15								
12803	Sent in from Winamac.		2.7	3.4	3.29	0.086	8.75	62.4	1.0034	0.0281	0.0090	+ 24.4	+ 23.8
12864	Sent in from Winamac.		3.8	4.7	4.05	120	11.67	65	1.0074	0.0449	0.0045	+ 28.0	+ 26.0

SO-CALLED TEMPERANCE BEERS.—CONTINUED.

Lab. No.	Article.	Manufacturer.	Location.	Sent in by	Location.	Alcohol.	
						By Weight.	By Volume.
12759	Tonica	Indianapolis Brewing Co.	Indianapolis.	Oren Hack.	Indianapolis	0.42	0.625
12810	Homo	Home Brewing Co.	Indianapolis.	Edgar M. Blessing.	Danville	0.70	0.90
12811	Homo	Home Brewing Co.	Indianapolis.	Edgar M. Blessing.	Danville	0.70	0.90
12849	Mead	Pabst Brewing Co.	Milwaukee.	S. M. Swaba	Winamac	1.80	2.25
12851	Mead	Pabst Brewing Co.	Milwaukee.	S. M. Swaba	Winamac	1.80	2.25
12852	Mead	Pabst Brewing Co.	Milwaukee.	S. M. Swaba	Winamac	1.80	2.25
12853	Mead	Pabst Brewing Co.	Milwaukee.	S. M. Swaba	Winamac	1.61	2.02
12854	Mead	Pabst Brewing Co.	Milwaukee.	S. M. Swaba	Winamac	1.74	2.18
12855	Mead	Pabst Brewing Co.	Milwaukee.	S. M. Swaba	Winamac	1.74	2.18
12856	Mead	Pabst Brewing Co.	Milwaukee.	S. M. Swaba	Winamac	1.74	2.18
12857	Mead	Pabst Brewing Co.	Milwaukee.	S. M. Swaba	Winamac	1.80	2.25
12858	Mead	Pabst Brewing Co.	Milwaukee.	S. M. Swaba	Winamac	2.85	3.57
12859	Hop Cream	Chas. Ogren & Co.	Chicago, Ill.	S. M. Swaba	Winamac	2.31	2.90
12860	Malt Cream	Chas. Ogren & Co.	Chicago, Ill.	S. M. Swaba	Winamac	4.57	5.74
12861	Malt Marrow	McAvey Brewing Co.	Chicago, Ill.	S. M. Swaba	Winamac	0.84	1.05
12862	Quaker Temperance Beer	Temperance Brewing Co.	Chicago, Ill.	S. T. Whitman.	Monticello	0.41	0.49
12897	Bevo	Anheuser-Busch Co.	St. Louis, Mo.	Major Sanderson.	Nat'l Military Home	0.127	0.16

Lab. No.	Article.	Extract.		Phosphoric Acid.	Specific Gravity @20 C.	Volatile Acids.		Reducing Sugars.	Polarization.		Degree Fermentation.	Original Extract Wort.	Preservatives.		
		By Weight	Direct Weight			As N=10	As Acetic Acid.		Direct.	Invert.			Saccharin.	Benzoate.	Sulphite.
9853	Hop Cream	3.92													
9854	Malt Marrow	4.61													
9855	Malt Marrow	5.56													
10398	Lithia Malt														
11986	Beetle	0.762													
12017	Hop Cream	3.118											Present.		
12074	Hop Cream	3.16													
12081	Hop Cream	3.04													
12082	Temperance Beer	4.023											None.		
12096	Beetle	0.610											Present.		

TINCTURE IODINE



The numbers 100 to 350 represent percentages U. S. P.

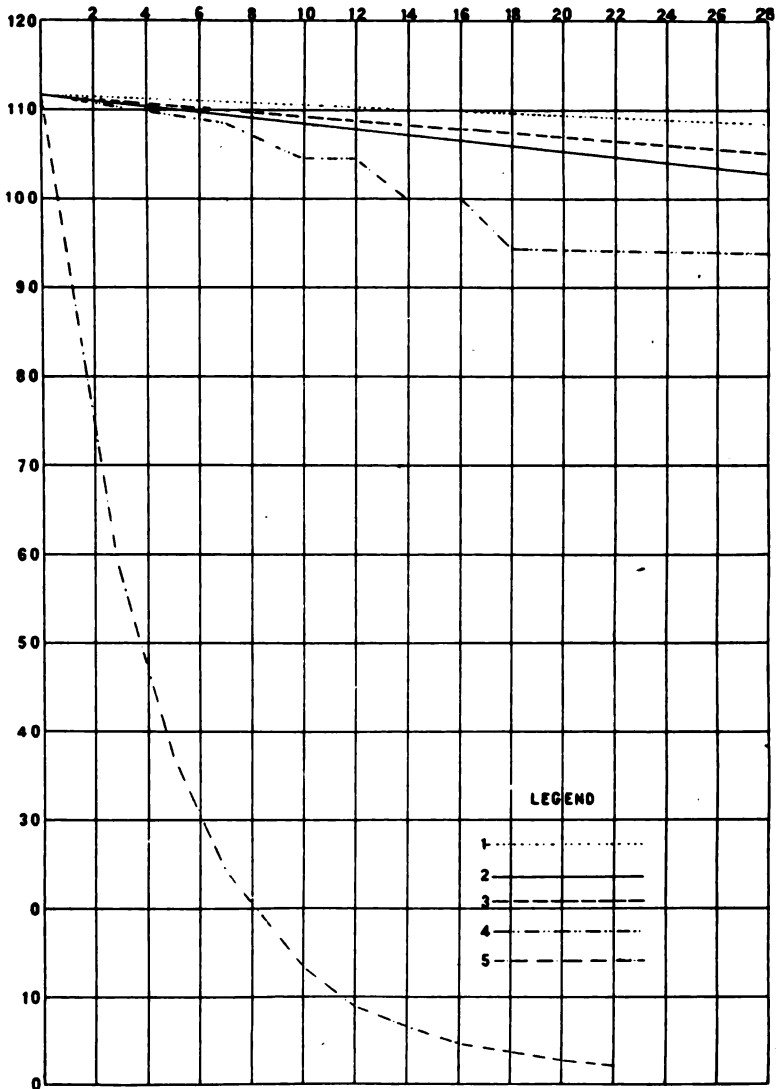
The numbers 2 to 28 indicate weeks.

The numbers of the legend, viz., 1 to 5, are those of the preparations mentioned in the text.

pharmacists that tincture of iodine deteriorates upon standing, and that the iodine volatilizes so that at the end of six months an appreciable less amount of iodine will be present than when freshly made. On the contrary, so far as we have observed, there is no volatilization of iodine, but a very marked concentration because of the evaporation of alcohol from the unprotected solution.

Spirits of Camphor was made by dissolving 100 grams of pure camphor in 800 cubic centimeters of 95 per cent alcohol, filtering and adding sufficient alcohol through the filter to make the volume of the finished product one liter. The spirits of camphor so prepared when analyzed was found to be 98.3 per cent. U. S. P. strength. The method of analysis employed was to observe the reading in a 100 millimeter tube in a Schmidt & Haensch triple-field polariscope, accepting as a basis for reading the fact the Pharmacopoeia preparation of spirits of camphor will show a plus reading of 12 under similar conditions. The solution was then divided into five portions and placed in the same style of bottles similarly protected as in the case of the tincture of iodine. At the end of two weeks there was no change in the first four samples; the fifth sample had, however, increased in strength 5 per cent. Throughout the experiment, which extended over twenty-two weeks and involved twelve analyses of each sample, there was no appreciable change in the character of the first four samples. The fifth sample, however, increased in strength rapidly, and at the end of eight weeks it was 119 per cent U. S. P., at the end of twelve weeks 134.1 per cent, at the end of sixteen weeks 157.5 per cent, at the end of twenty weeks 185.0 per cent, and at the present time reading 259.17 per cent. The increase is not rapid at first, but as the solution becomes more concentrated the volatilization of the alcohol seems to take place more rapidly, so that while the percentage of increase was low the first two weeks, the percentage of increase at the end of eighteen weeks was 11.6, twenty weeks 15.9, twenty-two weeks 21.6, and a graphic representation of these figures shows these changes very vividly. As in the case of the tincture of iodine, the drug trade is of the opinion that spirits of camphor loses strength because of volatilization of the camphor gum, and again our results show that opinion, we believe, to be entirely erroneous. We have noted no volatilization or deposit of camphor on the sides of the bottle. The solution is still perfect, and to all appearances the only change in the preparation has been that caused by concentration of the solution due to volatilization of alcohol.

AQUA AMMONIA



{The numbers 0 to 115 represent percentages U. S. P.

The numbers 2 to 18 indicate weeks.

The numbers of the legend, viz. 1 to 5, are those of the preparations mentioned in the text.

INDIANA STATE BOARD OF HEALTH

CIRCULAR OF INFORMATION TO THE DRUG TRADE.

STATE LABORATORY OF HYGIENE,
DEPARTMENT OF FOOD AND DRUGS,
STATE HOUSE, INDIANAPOLIS.

The section of the Pure Food and Drug Law relating to the misbranding and labeling of drugs reads in part as follows:

Chapter 104, Acts 1907.

Section 5. That the term misbranded, as used herein, shall apply to all drugs, or articles of food, or articles which enter into the composition of food and drugs, the *package or label of which shall bear any statement, design or device regarding such article, or the ingredients or substances contained therein which shall be false or misleading in any particular*, and to any food or drug product which is falsely branded as to the state, territory or country in which it is manufactured or produced. That for the purpose of this act an article shall also be deemed to be misbranded: In the case of drugs:

First. If it be an imitation of or offered for sale under the name of another article;

Second. If the contents of the package as originally put up shall have been removed, in whole or part, and other contents differing in quality or quantity from such original contents shall have been placed in such package, *or if the package fail to bear a statement on the label of the quantity or proportion of any alcohol, morphine, opium, cocaine, heroin, alpha, or beta eucaine, chloroform, cannabis indica, chloral hydrate, acetanilid, phenacetine, antipyrine, or any derivative or preparation of any such substance or substances contained therein.*

The energetic work of wholesale and retail druggists has put most of their stock in shape to comply with these requirements. But in some cases it has been impossible to secure corrective stickers or new labels, either because of the age of the stock, the failure of the manufacturing house, or the loss of formulas. In such instances we have endeavored to secure the inhibited drug content and in this circular to supply to the drug trade information that will make it possible to put back in stock all goods now withheld from sale.

The formulas given have been obtained from many sources. Some were furnished by proprietors who had not replied to individual requests; others were obtained from former members of manufacturing firms; still more were collected from the literature of drug analyses, and in many cases it has been necessary to analyze the article at this laboratory. Because of their varied source the formulas given may differ somewhat from those obtained by other analysts, but we believe that as a whole they express very closely the composition of the goods as they are found on the Indiana market.

After the preparations now not displayed for sale are plainly marked on the face of the principal label with the inhibited drug content, as herein listed, they may again be put in stock.

- A. B. C. Headache. 210 gr. Acetanilid to oz.
 Abbey's Eff. Salt. O.K.
 Abbott's Angostura Bitters. 50% Alc.
 Aro. Bitters. 50% Alc.
 Rheu. Remedy. 24% Alc.
 Eff. Saline Lax. O.K.
 Abbott's Saline Lax. O.K.
 Absorbine. 50% Alc.
 Abyssinian Tonic. 7.5% Alc.
 Accacian Balsam. 12.5% Alc. 4 Gr. Opil. in oz.
 Acer's English Cough Med. 9% Alc. $\frac{3}{4}$ m. Chlorof. to oz.
 Acker's Blood Elix. 17% Alc.
 English Remedy. 8% Alc. $\frac{3}{4}$ m. Chlorof. to oz.
 Acme Blood Purif. 8% Alc.
 Cholera Cure. 53.4% Alc. 1.2 gr. Opil. to oz.
 Corn Cure. O.K.
 Cough Syr. 2.5% Alc.
 Kidney Comp. 11.5% Alc.
 Nerve & Bone Lini. O.K.
 Oint. O.K.
 Pain Cure. 79% Alc. 12m. Ether, 4.5m. Chlorof. to oz.
 Porous Plaster. O.K.
 Tooth Po. O.K.
 Vegetable Soap. O.K.
 Veg. Cath. Liver Pills. O.K.
 Worm Candy. O.K.
 Adam's Cough Syr. 30m. Alc. 4m. Chlorof. $\frac{1}{4}$ gr. Morph. 4 gr. Acetanilid to oz.
 Adams Keno Koof and Kold. 30m. Alc. 4m. Chlorof. to oz.
 A. D. S. Catarrh Cure. Inh. 3.8 gr. Chloritone to oz.
 Celery Comp. 10% Alc.
 Codliver Oil Comp. 17% Alc.
 Kidney Remedy. 17% Alc.
 Pelvetone. 20% Alc.
 Soothing Syr. O.K.
 Agnew's Cryene. O.K.
 Ague Conqueror. 50% Alc.
 A. J. M. O.K.
 Al Borak Cure. 3% Alc.
 Albro's Heart Tabs. O.K.
 Alexander's K. & L. Tonic. 20% Alc.
 Rheu. and Malaria Cure. 2% Alc.
 Alkaseptin. 6.25% Alc.
 Alkvis. 20% Alc.
 Alpen Seal. O.K.
 Allan's Comp. Ext. Celery. 21.6% Alc.
 Comp. Ext. Damiana & Saw Palmetto. 27.5% Alc.
 Comp. Soothing Syr. 12.5% Alc. $\frac{1}{4}$ gr. Morph. to oz.
 Emulsion C. L. O. 19% Alc.
 Tasteless C. L. O. 18% Alc.

- Tar Tolu and W. Cherry. 17.7% Alc.
 Tar and W. Cherry. 10% Alc.
 Tasteless Teething Po. 2.73 gr. Morph. Sulph. to oz.
 Tooth Ache Wax. 1.21 gr. Morph. Sulph. to oz.
 Tooth Wash. 47% Alc.
 Vermifuge or Worm Syr. 6% Alc.
 White Pine. 10% Alc. 1.37m. Chlorof. to oz.
 Windsor Tooth Ache Drops. 60% Alc. 1.33 gr. Opl. to oz.
 White Pine and Tar. 9.5% Alc. 1.1m. Chlorof. to oz.
 American Corn Cure. 1.6% Can. Ind.
 Tooth Drops. 48% Alc. 25% Chlorof.
 Anti-Grippine. 2 gr. Acetanilid.
 Antikamnia and Heroin. 7.33 gr. Heroin. 366 gr. Phenacetin to oz.
 Alangine. 2.5 gr. Acetanilid, $\frac{1}{2}$ gr. Can. Ind. to oz.
 Anderson's Dermador. 60% Alc.
 Andrew's Relief. 56% Alc., 1 gr. Opl. to oz.
 Angeline. 50% Alc.
 Angiers Petrol. Emul. O.K.
 Anheuser-Busch Malt Nutrine. 2% Alc.
 Anti-Apoplectine. 21% Alc.
 Diuretic. 14.5% Alc.
 Antikamnia. 72% Acetanilid.
 Antiseptic Lotion. Alc. 3%.
 Refrigerant. 70% Alc.
 Anti-Uric for Rhen. 20% Alc.
 Apetol. O.K.
 Arabian Specific. O.K.
 Arbolum. 5% Alc.
 Argon Oil. O.K.
 Armistead Ague Tonic. 5.5% Alc.
 Armour's Nutrine Wine of Beef Peptone. 20% Alc.
 Arnold's Bromo Pepsin. 5 gr. Acetanilid to dr.
 Cough Killer. 15% Alc. 0.2 gr. Morph. 0.3m. Chlorof. to oz.
 Soothing and Quieting Cord. 18% Alc. 1.8 gr. Opl. to oz.
 Arsenaro. O.K.
 Arthur's Camph. Quinine Tabs. O.K.
 Nerve and Heart Tabs. O.K.
 Artol. 40% Alc.
 Asthmaline. 10% Alc.
 Athlophoros. O.K.
 Atwood's Jaundice Bitters. 17.5% Alc.
 Aunt Dinah Herb Tea. O.K.
 Lydia's Anastringent. 0.5 gr. Opl. to each Suppos.
 Ayres Cherry Pectoral. 17% Alc. 1.6 gr. Heroin to oz.
 Comp. Con. Ext. Sarsa. 20% Alc.
 Hair Vigor. 15% Alc.
 Malarial and Ague Cure. 20% Alc.
 Sarsa. 17% Alc.
 Baby Own Tab. O.K.
 Bailey's Dysp. Tabs. O.K.

- Teething Cord. 2½% Alc. ½ gr. Morph. to oz.
 Veg. Expect. 7% Alc. 1-5 gr. Morph. to oz.
 Nerve & Bone Lini. 4m. Chlorof. to oz.
 Pain King. 29% Alc.
 Pills. O.K.
 Browning's Antiseptic Healing Balm. 48% Alc. 1m. Chlorof. 1m. Opil. 3m.
 Ether to oz.
 New Discovery. 18% Alc.
 Bruce's LaGrippe & Fever Cure. 10% Alc.
 Tonic & Blood Purifier. 5% Alc.
 Brunker's Balsam. 14% Alc. ½ gr. Opil. to oz.
 Bryant's Root Beer. O.K.
 Bucura. 30% Alc.
 Buckingham's Dye. 33% Alc.
 Bucklin's Electric Bitters. 15% Alc.
 Bull's Baby Syr. 4% Alc. 1-12 gr. Morph. to oz.
 Cough Syr. 4% Alc. ½ gr. Codeine to oz.
 W. H. Herbs & Iron. 17% Alc.
 John. Sarsa. 17% Alc.
 Veg. Worm Syr. 12% Alc.
 Burdock Blood Bitters. 22% Alc.
 Burdsall's Bucaloid. 20% Alc.
 Burk's Blk. Berry Balsam. 30% Alc.
 Cholera Spec. 68% Alc. 2½m. Opil to oz.
 Iron Tonic. 28% Alc.
 Jam. Ginger. 95% Alc.
 Lini. 66% Alc. 3m. Chlorof. to oz.
 Sarsa. & Red Clover. 20% Alc.
 Butler's Nerve & Bone Lini. O.K.
 Cabler's Root Juice. 8% Alc.
 C. C. C. 16m. Chlorof. 16m. Opil. to oz.
 C. C. G. 4% Alc.
 C. C. Suppos. 1 gr. Opil.
 Cadomen. 65% Alc.
 Calcarda. 18% Alc.
 Caldwell's Egyptian Pile Salve. 1½ gr. Opil. to oz.
 Caldwell's Syr. Pepsin. 9% Alc.
 California Catarrh Cure. O.K.
 Syr. Figs. 5% Alc.
 Golden Oil. O.K.
 Mission Lini. O.K.
 Paradise Oil. O.K.
 Prune Wafers. O.K.
 Campho-Phenique. O.K.
 Capicol. O.K.
 Capillaries Hair Tonic. O.K.
 Capuline. 8% Alc.
 Carbol. 23% Alc.
 Carbolatum. O.K.
 Carbol's Corn Checkers. 20% Can. Ind.

- Kidney & Backache Cure. 10% Alc.
 Liver Po. O.K.
 Spring Medicine. 22% Alc.
 Cranitone. 20% Alc.
 Cranitonic Hair Food. 20% Alc.
 Cressler's Fragrant Balm. 20% Alc.
 Headache Capsules. 3 gr. Acetanilid to cap.
 Craft's Distemper Cure. O.K.
 Crosby's Vit. Phosphite. O.K.
 Croupoline. 36% Alc.
 Crook's Wine of Tar. 15% Alc.
 Crumpton's Strawberry Balsam. 50% Alc. 2½ gr. Opii. to oz.
 Cubeb Cough Syr. ½ gr. Chlorof. 1-32 gr. Morph. to dr.
 Cumin's Dr. Vegetine. 18% Alc.
 Curine Lini. 30% Alc. 5½ gr. Opii. to oz.
 Curine Cough Syr. O.K.
 Cushman's Menthol Balm. O.K.
 Cuticura Resolvent. 20% Alc.
 Dale's Head Ache Po. 4 gr. Acetanilid to po.
 Damshinsky Hair Dye. O.K.
 Danna's Sarsa. 20% Alc.
 Danderine. 10% Alc.
 Daniel's Colic Cure. 70% Alc.
 Fever Drops. 70% Alc.
 Pine Apple. 24% Alc.
 Wonder Worker Lini. O.K.
 Darby's Propolacti. O.K.
 Davis's Anti Headache Cure. 3½ gr. Acetanilid to po.
 Castor Oil. 1% Alc.
 Kidney Tabs. O.K.
 Tasteless Castor Oil. 1% Alc.
 Anti-Headache. 265 gr. to oz.
 Day's Ague Tonic. 25% Alc.
 D. D. D. Remedy. 40% Alc. 1.75 gr. Chloral to oz.
 Dead Shot on Pain. O.K.
 De Aucker's Celery and Pepsin Comp. 15% Alc.
 Debco Aro. Castor Oil. 3% Alc.
 Diarrhoea Mix. 90% Alc. 40m. Chlorof. to oz.
 Cholera Mix. 85% Alc. 6 gr. Opii. to oz.
 Euralgia. 30% Alc. 16 gr. Acetanilid to oz.
 Hair Tonic. 10% Alc.
 Household Lini. 80% Alc. 4m. Chlorof. 16m. Ether to oz.
 Lax. Syr. Pepsin. 20% Alc.
 Remedy for Kidney Disease. 18% Alc.
 Solution Antiseptic. 25% Alc.
 Toilet Benzene. 95% Alc.
 Deem's Rheu. Remedy. 10% Alc.
 De Lacey's Cin-ko-na and Iron. 16% Alc.
 Hair Tonic. 5% Alc.
 Deloste's Head Ache Po. 195 gr. Acetphenetidine to oz.

- Hobb's Liver Pills.** O.K.
Sparagus Pills. O.K.
Hobson's Almond Cream. O.K.
Arnica Salve. O.K.
Blackberry Balsam. 10% Alc.
Camphor Ice. O.K.
Carbolic Salve. O.K.
Cholera Cure. 78% Alc. 4.3 gr. Opii. 36m. Chlorof. to oz.
Comp. Ext. Buchu with Acet. Potash. 9% Alc.
Comp. Quinine Hair Tonic. 3 gr. Chloral. 9% Alc. to oz.
Dandruff Remedy. 4.3 gr. Chloral, 3.5% Alc. to oz.
Ext. Sarsa. O.K.
Eucamenthat Tooth Po. O.K.
Hair Renewer. 3% Alc.
Hair Restorer. 3% Alc.
Head Ache Po. 139 gr. Acetanilid to oz.
Headache Tabs. 278 gr. Acetanilid to oz.
Horse Remedy. O.K.
Lax. Cold Tabs. 164 gr. Acetanilid to oz.
Lax. Fig Syr. 5% Alc.
Painless Corn Killer. 30% Alc. 83m. Ether to oz.
Pink Pain Pills. 278 gr. Acetanilid to oz.
Tasteless Vermifuge. 13% Alc.
Veg. Prescription. O.K.
Whooping Cough. 4m. Chlorof. to oz.
Hoff's Consumption Cure. 0.1 gr. Opii. to dose.
German Lini. O.K.
Malt Ext. 1.9% Alc.
Hoffman's German Tea. O.K.
Harmless Headache. 45% Alc.
Red Drop. 57% Alc.
Hollingsworth Alterant and Solvent. 12% Alc.
Holmes' Fragrant Frostillia. 17% Alc.
Homonis Remedy. 50% Alc. (For G. & G.)
Hood's May Blossom and Honey. 12% Alc.
Olive Oint. O.K.
Sarsa. 18% Alc.
Tuseano. O.K.
Hoofland's German Bitters. 2% Alc.
Hoope's Dysp. Tabs. O.K.
Hoosier Cough Syr. O.K.
Curling Fluid. O.K.
Hoover's Balsam and W. Cherry. 35% Alc. 1-120 gr. Morph. to dose
Hop Bitters. 12.5% Alc.
Horsford's Acid Phos. O.K.
Hostetter Stomach Bitters. 39% Alc.
Hot Springs Blood Remedy. 10% Alc.
Howe's Lini. O.K.
Blackberry Balsam. O.K.
Hoxie's Croup Cure. 20% Alc.

- Iodia. 38% Alc.
 Iowna. $\frac{1}{2}$ m. Tr. Can. Ind.
 Ireland's New Discovery. 10% Alc.
 Islands New Discovery. 10% Alc.
 Ivory Oil. O.K.
 Jack Frost. O.K.
 Jackson's Common Sense Lini. $\frac{1}{2}$ gr. Chloral. 49 gr. Acetanilid. $\frac{1}{2}$ gr. Morph. to oz.
 Jackson's Eye Salve. $\frac{1}{2}$ gr. Morph. to oz.
 James' Ext. Can. Ind. 8% Alc. 1-6 gr. Opil. 9-10 gr. Can. Ind. to oz.
 Soothing Syr. 1-20 gr. Heroin to oz.
 Wine of Hopa. 23% Alc.
 Japanese Menthodine. O.K.
 Oil. 5% Alc.
 Pile Remedy. 9.11 gr. Opil. to oz.
 Jaynes' Alterative. 25% Alc.
 Balsam. 23% Alc. 9 gr. Opil. to oz.
 Expect. 13% Alc. 1.2 gr. Opil. to oz.
 Lini. 52% Alc.
 Tonic Vermifuge. 29% Alc.
 Sanative Pills. 3.4 gr. Opil. to oz.
 Jim Crow Corn Salve. O.K.
 Johnson's Anodyne Lini. 18% Alc. 6 $\frac{1}{2}$ m. Ether. $\frac{1}{2}$ gr. Opil. to oz.
 Dysp. Cure. O.K.
 Indian Blood Syr. 15% Alc.
 Magnetic Oil. O.K.
 Sarsa. 16% Alc.
 6068. 18% Alc.
 Jones' Blush of Roses. O.K.
 Red Clover Tonic. 21% Alc.
 Jordan's Champlon Lini. 68% Alc. 3m. Ether. 3m. Chlorof.
 Lung Renovator. 6 $\frac{1}{2}$ % Alc.
 Seven United Blood & Nerve Remedy. 21% Alc.
 Woman's Uterine Tonic. 21% Alc.
 Juniper Tar. 1 $\frac{1}{2}$ drams. Alc. to bottle.
 Kalamazoo Celery Comp. 9% Alc.
 Kargon Comp. 15% Alc.
 Katarono. 28% Alc.
 Katharmon. 15% Alc.
 Kauffman's Sulph. Bitters. 23% Alc.
 Kay's Lung Balm. (Liq.). 1% Alc. 1-10 gr. Opil. (Saratoga Springs, N. Y.)
 Kay's Dr. Lung Balm. (Liq.) 10% Alc. (Omaha, Neb.)
 Kay's Dr. Lung Balm. (Tab.) 1-45 gr. Morph. to tab. (Saratoga Springs, N. Y.)
 Lung Balm. (Tab.) O.K. (Omaha, Neb.)
 Pile Cure. 3-14 gr. Opil. to suppos. (Saratoga, N. Y.)
 Renovator. 25% Alc.
 Keemp's Root Beer. O.K.
 Keen's Eye Salve. 5 gr. Morph.
 Kelley's Liver Pills. O.K.

- Kocelko Vin. 21% Alc.
 Kodol Nerve Tonic. 18% Alc.
 Kodol Dysp. Cure. 12% Alc.
 Koenig's Hamburg Drops. 55% Alc.
 Little Herb Pills. O.K.
 Nerve Tonic. 5% Alc.
 Kohler's One Night Corn Cure. 4% Alc. 4½m. Can. Ind. 2½m. Chlorof. 2½ gr.
 Morph. to oz.
 Headache Po. 5 3-5 gr. Acetanilid.
 Kola Cardinette. 17½% Alc.
 Pepsin. 3 gr. Acetanilid.
 Kondon's Catarrh Jelly. O.K.
 Kopp's Baby Friend. 8% Alc. ½ gr. Morph. to oz.
 Cure-A-Koff. 4% Alc. 4 gr. Chlorof. 1 1-17 gr. Morph. to oz.
 Krause's Cold Tabs. 36 gr. Acetanilid to the box.
 Headache Tabs. 36 gr. Acetanilid to box.
 Kreotol. 18% Alc.
 Kuhn's Rheu. Remedy. 35% Alc.
 Kurem Pain Extractor. 72% Alc.
 Kuctnow's Powds. O.K.
 Laclide's Nerve & Bone Lini. O.K.
 Lactopeptine Elix. 19% Alc.
 LaCreole Hair Restorer. 12% Alc.
 La-Cu-Pi-A. 15% Alc.
 LaFrance Comp. O.K.
 Lallemand's Gout & Rheu. Cure. O.K.
 Lanbach's Dr. Elect. Lini. 80% Alc.
 Lambert & Lowman's Almond Cream. 4% Alc.
 Alpine Cream. 4% Alc.
 Arnica Lini. 5% Alc. 1 gr. Opl. to oz.
 Asthmatic Elix. with Iodide Pot. 50% Alc.
 Antiseptoid. 20% Alc.
 Balsam Pine & Spruce. 9% Alc. 3-16 gr. Morph. Acet. 4m. Chlorof.
 to oz.
 Beef Iron & Wine. 22% Alc.
 Blkberry Cord. 25% Alc. ¼ gr. Opl. to oz.
 Blkberry & Ginger. 25% Alc. ¼ gr. Opl. to oz.
 Boulanger Hair Dye. O.K.
 Bronchial Loz. O.K.
 Buchu with Pot. Acet. 25% Alc.
 Camphor Cream. 4% Alc.
 Cascara Sag. Constipation Remedy. 1% Alc.
 Castoria. 10% Alc.
 Chlor. Pot. Tabs. O.K.
 Colic, Cholera & Diarrhoea Remedy. 95% Alc. 1 gr. Opl. to oz.
 Comp. Ext. Buchu. 25% Alc.
 Comp. Ext. Celery. 20% Alc.
 Comp. Ext. Damiana. 25% Alc.
 Comp. Hive Syr. 10% Alc.
 Ext. Sarsa. 20% Alc.

- Santonine Worm. Syr. 10% Alc.
 (Scott's) Lini. 50% Alc. 1 gr. Opii. to oz.
 Soda Mint Tabs. O. K.
 Spavin Cure. 25% Alc.
 Sun Cholera Mix. 3m. Tinct. Opii. to tab.
 Syrp. Hypophos. Comp. O.K.
 Syrp. Tolu & Tar, & Wild Cherry. 10% Alc. 1 gr. Opii. to oz.
 Syrp. Trifollum Comp. 10% Alc.
 (Swift's) Comp. Ext. Celery. 20% Alc.
 Talcum Po. O.K.
 Tar, Honey, Horehound & W. Cherry. 10% Alc. 1 gr. Opii. to oz.
 Tasteless Syr. Quinidia. 20% Alc.
 Tooth Po. O.K.
 Tooth Soap. O.K.
 Veg. Worm. Po. O.K.
 Vinetta. 25% Alc.
 W. Pine Expect. 9% Alc. 3-16 gr. Morph. Acet. 4m. Chlorof. to oz.
 W. Pine Expect., with Tar, H. H. and W. Cherry. 9% Alc. 3-16 gr.
 Morph. Acet. 4m. Chlorof. to oz.
 W. Pine & Menthol. 9% Alc. 3-16 gr. Morph. Acet. 4m. Chlorof. to oz.
 W. Pine & Red Spruce Expect. 9% Alc., 3-16 gr. Morph. Acet. 4m.
 Chlorof. to oz.
 W. Pine & Tar. 9% Alc., 3-16 grs. Morph. Acet. 4m. Chlorof. to oz.
 Worm Confections. O.K.
 Worm Choc. O.K.
 Worm Po. O.K.
 Worm Syr. 10% Alc.
 Lith. Hydrangea. 25% Alc.
 Lameroux, Dr., Saw Palmetto & Sarsa. O.K.
 Lane's Blood Med. 21% Alc.
 Catarrh Med. 25% Alc.
 Lane's Cough Med. 9% Alc.
 Diarrhoea Med. 25% Alc. 2 1-5 grs. Opii., 16m. Chlorof. to oz.
 Hair Tonic. 3% Alc.
 Kidney & Backache Cure. 10% Alc.
 Pleasant Quinine Lax. 1½ grs. Acetanilid to tab.
 Sore Throat Med. 3% Alc.
 LaPearl's Circus Lini. O.K.
 Larena. 16% Alc.
 Lash's Kidney & Liver Bitters. 21% Alc.
 Lauback's Lini. 80% Alc.
 Lax. Cold Tabs. 2 grs. Acetanilid, 1-100 gr. Morph. to oz.
 Boro Pepsin. 2% Alc.
 Boro Quinine. 2 grs. Acetanilid to tab.
 Butter Cups. O.K.
 Quinine Tabs. 2 grs. Acetanilid to tab.
 Lax-Fos. 4% Alc.
 Laval's Celery Cord. 14% Alc.
 Chill Tonic. O.K.
 Sarsa. 22% Alc.

- Lavilla's, Dr., Pilules du, for Rheu. O.K.
 LaVoris. 5% Alc.
 LeBruns G. & G. Cure. O.K.
 Lemke's Cal., Herb. Pectoral. 5% Alc.
 Cal., Stomach Drops. 51% Alc. 18m. Ether, 5 grs. Opil. to oz.
 Sarsa., 15% Alc.
 Lemheo Elect., Lini. 62% Alc., 3m. Chlorof., 8m. Ether, 1 gr. Opil., to oz.
 Lemon's Lax. Syr. 8% Alc.
 Lentz Liver Pills. O.K.
 Leronx Blood. 14% Alc.
 Lichty's Celery & Nerve Comp. 17% Alc.
 Liebig's B., I. & W. 8% Alc.
 Life Plant. 15% Alc.
 Lightning Blood Elix. 20% Alc.
 Castoria. 12% Alc.
 Cough Drops. 3% Alc., 4m. Chlorof., to oz.
 Hot Drops. 60% Alc., 6m. Chlorof. to oz.
 K. & L. Cure. 19% Alc.
 Lax. Cough Syr. 3% Alc., 4m. Chlorof. to oz.
 Lax. Quinine Comp. Tabs. 1 gr. Acetanilid, 1 1-10 grs. Morph. Sulph.
 to tab
 Pain Killer. 60% Alc., 6m. Chlorof. to oz.
 Sarsa. 20% Alc.
 Worm Killer. 14% Alc.
 Lilly's Loz. O.K.
 Lindley's Golden Remedy. 2% Alc.
 Liquid Albolene. O.K.
 Franconia. O.K.
 Killem. O.K.
 Peptonoids. 18% Alc.
 Peptonoid with Creosote. 12% Alc.
 Liquecide (Liquozone). O.K.
 Liquozone Female Suppos. 10 grs. Chlorotone to oz.
 Oint. 8 3-5 grs. Chlorotone.
 Rectal Suppos. 7 7-24 gr. Opil. to oz.
 Listerine. 25% Alc.
 Littell's Liq. Sulphur. O.K.
 Liver Lax. O.K.
 Logan's, Loyd, Syr. Pine Comp. 5% Alc.
 Londin's Juniper Ade. O.K.
 Lone Star Lini. 90% Alc., 3½m. Opil.
 Long's Blood Purif. 12% Alc.
 Longtry's, Walter, Scotch Oil. O.K.
 Loose's Red Clover. 20% Alc.
 Loring's Fat 10 U Food. O.K.
 Loxol Pain Expeller. 49% Alc.
 Low's Lini. 69% Alc.
 Lyon's Katharion. 76% Alc.
 Lax. Syr. 12% Alc.
 Periodical Drops. 54% Alc.
 Seven Wonder. O.K.

- McMunn's Elix. of Opi. 60% Alc., 0.8 gr. Morph. to oz.
 McQueen's Wa-Hoo B. and N. Tonic. O.K.
 Mederine. 12% Alc.
 Mellachol Painless Lax. 215m. Ethyl-acet. to oz.
 Mellin's Food. O.K.
 Melol. 3% Alc.
 Mendenhall's Cold & Grippe. 1.25 gr. Acetanilid.
 Corn Med. 23% Alc., 69% Ether., 48m. Can. Ind. to oz.
 Fever Tonic. 15% Alc.
 Pain Cure. 10% Alc., 3m. Chlorof., 125m. Opi.
 Pine Balsam. 12.5% Alc., 1-3 gr. Heroin to oz.
 Mennen's Corn Killer. 280m. Alc.
 Sure Corn Cure. 60% Alc., 1.5% Can. Ind.
 Menthocura. 35% Alc. (Old).
 Mentholated Cough Cure. O.K.
 Menthol Balm. O.K.
 Merchant's Gargling Oil. 42% Alc. (Beast).
 Gargling Oil. 44% Alc. (Man).
 Mercurio. O.K.
 Merrill's Female Tonic. 20% Alc.
 Penetrating Oil. O.K.
 Mieden's Liver Bitters. O.K.
 Migrammes. 228 gr. Acetanilid to oz.
 Minard's Lini. O.K.
 Mintone. 25% Alc., 3 grs. Antipirine to oz.
 Miles' Anti-Pain Pills. 2 grs. Acetanilid to tab.
 Blood Purif. 12.8% Alc.
 New Cure. 11% Alc.
 Restorative Nervine. O.K.
 Restorative Tonic. 22% Alc.
 Milk's Emul. 1% Alc.
 Miller's Universal Balm. 62% Alc.
 Mishler's Herb Bitters. 33% Alc.
 M-I-S-T. O.K.
 Mixer's Camphor Syr. 7.5% Alc.
 Modene. O.K.
 Modoc Oil. 10m. Chlorof.
 Moeller's C. L. O. No. 1. O.K.
 Moffat's Teethina. 1-16 gr. Opi. to oz.
 Moffet Pills. O.K.
 Monarch Lini. O.K.
 Monnett's Kandoits. O.K.
 Moorhead's Russian Salve. O.K.
 Morley's Chill Syr. 8 gr. Acetanilid to oz.
 Wonderful 8. 60% Alc.
 Morrell's Kidney Cure. 18% Alc.
 Pain Destroyer. 55% Alc.
 Stomach Reg. 18% Alc.
 Morris English Colic Cure. 22% Alc., 3.5 gr. Morph. to oz.
 Morrow's Kid-ne-olds. O.K.

- Mother Grey's Sweet Worm Po. O.K.
 Headache Chocolates. 2.5 gr. Acetanilid to tab.
 Noble Healing Syr. 0.2% Alc.
 Blackberry Cord. 9.3% Alc.
 Segile Curative Syr. O.K.
 Friend. O.K.
 Tonic. 10% Alc.
 Myre's Solid Ext. Witchhazel Comp. O.K.
 Mullein's Balsam. Chlorof. 3m., Alc. 20m. to oz.
 Mull's Grape Tonic. 15% Alc.
 Munson's Croup & Cough Syr. 5% Alc.
 Munyon's Inhaler with Med. O.K.
 Pawpaw. 23% Alc.
 Witch Hazel Balsam. 18% Alc.
 Murine. O.K.
 Murry's Cyclone Lini. 72% Alc., 6m. Chlorof. to oz.
 Murray's Fish & Bone Salve. O.K.
 Mustang Lini., Mexican. O.K.
 National Corn Remover. O.K.
 K. & L. Cure. 15% Alc.
 Nature's K. and L. Cure. 10% Alc.
 Oil. O.K.
 Navin's Alterative Po. 3 dr. Nux Vom. to oz.
 Antiseptic. 3% Alc.
 Colic Cure. 15% Alc., 12m. Cann. Ind. to oz.
 Neat's Anti-pidsole. 63% Alc.
 Anti-septine. 20% Alc.
 Bronchilline. 1% Alc., 1m. Chlorof. to oz.
 Digestivans. 17% Alc.
 Elix. Alteris Comp. 22% Alc.
 Elix. Iron Pyrophos. Q. & S. 20% Alc.
 Elix. Rhubarb Comp. 10% Alc.
 Elix. Salicylic Acid. 30% Alc.
 Ess. Pepsin. 20% Alc.
 Ext. Sarsa. 20% Alc.
 Hoosier Balsam. 10% Alc.
 Nutrivine. 6% Alc.
 Nelson Baker Comp. Sarsa. Ext. 14% Alc.
 Neoferrum. 1.18% Alc.
 Nervan Tabs. for Blood. O.K.
 Neuralgine. 60% Alc.
 Tabs. 1.5 gr. Acetanilid to tab.
 Neurosine. 5% Alc., 0.6 gr. Can. Ind.
 Nichol's Comp. C. L. O. 16% Alc.
 Elix. Peruvian Bark. 8% Alc.
 Peruvian Bark. 18% Alc.
 Nile's Pile Oint. O.K.
 Noitol. O.K.
 Neutrolactic. 5% Alc.
 Nuxol. Vis-A-Tergo. 18% Alc.

- Phelps's Cough Syr. 3% Alc., 1.5m. Chlorof. to oz.
 Rheu. Ellx. 32% Alc.
 Rheu. Syr. 32% Alc.
 Pheno-Coffene. 2 gr. Acetanilid to pill.
 Phenol Sodique. O.K.
 Phenny-O-Caffeine. 2 gr. Acetanilid to pill.
 Phillip's C. L. O. Emul. O.K.
 Phrosphagon. 16% Alc.
 Phytoline. 23.5% Alc.
 Pleiffers Baby Cough Syr. 2% Alc.
 Positive Painless Pile Comb. 3.6 gr. powd. Optl. to oz.
 Ponca Comp. Uterine Alt. Tabs. O.K.
 Ponds Ext. 16% Alc.
 Poor Man's Bitters. 12% Alc.
 Popham's Asth. Spec. O.K.
 Porter's Antisep. Healing Oil. O.K.
 Pain King. 65% Alc. 30m. Ether to oz.
 Porto Vin. 21.1% Alc.
 Power's Asthma. O.K.
 Tonic. 20% Alc.
 Plauter Cuban Oil. 4m. Chlorof. to oz.
 Planter's Female Remedy. 10% Alc.
 Liver & Kidney Reg. O.K.
 Plastoroids. O.K.
 Platt's Chloride. O.K.
 Pierce's Favorite Pres. O.K.
 Lotion Tabs. O.K.
 Smart Weed. 40% Alc., 0.8 gr. Optl. to oz.
 Suppos. O.K.
 Pile Driver Salve. 1% Alc.
 Pinaud Eau De Quinine. 68% Alc.
 Pinex. 17% Alc., 22m. Chlorof., 7-8 gr. Heroin to oz.
 Pinkham's Blood Purif. 18% Alc.
 Veg. Comp. 18% Alc.
 Wash. O.K.
 Pink's Magic Oil. 87% Alc.
 Pinn's. O.K.
 Piso's Cure. $\frac{1}{4}$ gr. Can. Ind. to oz.
 Remedy Catarrh. O.K.
 Pitcher's Castoria. 10% Alc.
 Worm Syr. 13% Alc.
 Pres. 49. O.K.
 Pretzinger's Catarrh Balm. O.K.
 Price's Kola & Tar. 10m. Alc.
 Prima Purificans. 40% Alc.
 Primley's Celery & Cola. 17% Alc.
 Iron and Wahoo Tonic. 22% Alc.
 Sarsa. 18% Alc.
 Speedy Cure. 1m. Chlorof., 0.2 gr. Morph. to oz.
 Prosene. O.K.

Sal-Lac. O.K.

Salter's Pain Subduer. 35% Alc., 1-5 gr. Opii., 47m. Chlorof. to oz.

Salva Cea. $\frac{1}{2}$ % Chlorof.

Salvation Oil. 2% Alc.

Samaritan Nerveine. O.K.

Sanborn Rocky Mount. Lini. 85% Alc.

Sanford's Jam. Ginger. 67% Alc.

Liver Reg. & Inv. 16% Alc.

Radical Cure for Catarrh. 10% Alc.

Sanmetto. 18.6% Alc.

Sanol. 16% Alc.

L. & K. Cure. 16% Alc.

Santa-Able Lung Rest. 2% Alc., 3.2m. Chlorof., 1-5 gr. Morph. to oz.

Santol. 68% Alc.

Santal Midy. O.K.

Sawyer's Arnica and W. Hazel Salve. O.K.

Family Cure. 15.6% Alc.

Ko-Ro-No. O.K.

Little Wide Awake Pills. O.K.

Squaw Root. O.K.

Schencke's Sea Weed. 19% Alc.

Pulmonic Syr. O.K.

Tonic. 19% Alc.

Schiffier's Colorine No. 2. 12.4% Alc.

Schiffman's Asth. Cure. O.K.

Schoen-Feld Diarrhoea. 50% Alc., 3 gr. Opii. to oz.

Scott's Emul. O.K.

Scovill's Blood and Liver Syr. 18.5% Alc.

Seabury's Gum Wash. 25% Alc.

Sear's Jam. Rheu. Cure. 8% Alc.

Seigel's Syr. O.K.

Seller's Cough Syr. 1-50 gr. Chlorof., 1-30 gr. Opii. to dr.

Seneca Oil. 3% Alc., 2m. Chlorof. to oz.

Seng. 18% Alc.

Sengine. 6% Alc.

Sennewauld Pres. 7% Alc.

Septola Antisep. Inhaler. 50% Alc.

Seven Barks. 7.5% Alc.

Seven Seals. 65% Alc.

Seven Sutherland Sisters Hair Grower. 30% Alc.

Sever's Eczema. 0.8% Alc.

Skin Cure. 1% Alc.

S. H. A. C. Headache Po. 4 gr. Acetanilid to Po.

Shaker Digest. Cord. .045% Alc.

Shamrock Oil. 93% Alc., 2-3 gr. Opii., 7m. Ether, 9m. Chlorof. to oz.

Sharpe & Dohme's Tonic Beef. 20% Alc.

Shedd's Cough Cure. 12% Alc., 1-6 gr. Opii. to oz.

Sherman's Prickly Ash Bitters. 22% Alc.

Shenk's Tonic. 19% Alc.

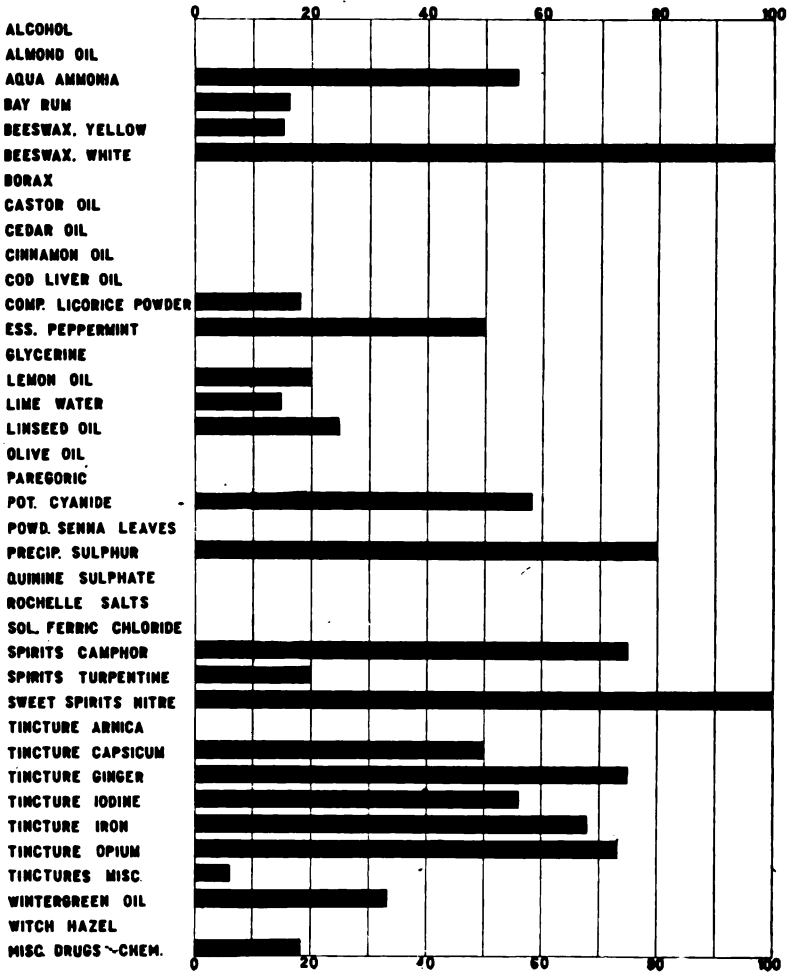
Sherman's Head Ache Cap. 2 gr. Acetanilid to cap.

- Up-John's Caro-Pepsin. 31% Alc.
 Uriform. 20% Alc.
 Utero Tonic. 80% Alc.
 Vapo-Cresolene. O.K.
 Vapor-OL No. 1. 90% Alc.
 No. 2. O.K.
 No. 3. O.K.
 No. 4. O.K.
 No. 5. O.K.
 No. 6. 40% Alc., 3 grs. Opl. to oz.
 No. 7. O.K.
 No. 8. O.K.
 No. 9. O.K.
 Van's Mexican Hair Rest. .008% Alc.
 Van Wort's Balsam. 4m. Chlorof., 1-3 gr. Morph. to oz.
 Vaughn's Burdock Root. 31% Alc.
 Veg. Lithontripis. 12% Alc.
 Vedonia. O.K.
 Vegazol. O.K.
 Vegene. 12% Alc.
 Catarrh Cure. O.K.
 Oint. O.K.
 Veg. Pulmonary Balsam. 18% Alc., 1½ grs. Opl. to oz.
 Verna Palmettona. 17% Alc.
 Vernal Female Tonic. 17% Alc.
 Palmetto Iron & Nerve Tabs. O.K.
 V. I. G. 1 gr. Morph.
 Vinlax. 16% Alc.
 Vin Mariana. 17% Alc.
 Vino Kolafra. 18% Alc.
 Vinol. 18% Alc.
 Virgin Oil of Pine. O.K.
 Vitae Ore. O.K.
 Vital Vim. O.K.
 Vitalized Phosphates. O.K.
 Vito Aerial Germicide. O.K.
 Vogler's Burdock Root Oil. 31% Alc.
 Volgt's Gadline Cord. 14% Alc.
 Wa-Hoo. O.K.
 Wakefield's Blkberry Balsam. 12% Alc., 0.7 gr. Opl. to oz.
 Comp. Syr. Horehound. 12% Alc., 12m. Tr. Opl. to oz.
 Hair Tonic. 50% Alc.
 Rheu. Cure. 4% Alc.
 Tonic. 18.3% Alc.
 Walnutta Hair Dye. 2% Alc.
 Walnut Leaf Hair Rest. 11% Alc.
 Walther's Peptonized Port. 20% Alc.
 Wampole's As-par-o-line Comp. 50% Alc.
 Creo-Terpin Comp. 25% Alc., 1-6 gr. Heroin. to oz.
 Ext. C. L. O. 20% Alc.
 Formolid. 15% Alc., 2 gr. Acetanilid.

- Quick Relief. O.K.
 Rheu. Herb Lini. O.K.
 Sarsa. 18% Alc.
 Whitman's Cough Balsam. 39% Alc.
 K. & L. 14.3% Alc.
 Veg. Wonder. 86.3% Alc.
 Wildcat Lini. 50% Alc.
 Wilder's Cough Syr. 5% Alc.
 Diarrhoea Cord. 20% Alc.
 Mount. Tonic. 5% Alc.
 Sarsa. 14% Alc. (Old.)
 Stomach Bitters. 14% Alc.
 Tooth Ache Drops. 20% Alc.
 Wild Potato Root. 15% Alc.
 Winchell's Teething Syr. O.K.
 Winchester's Hypophos. O.K.
 Wine of Cardui. 20% Alc.
 Wing's Worm Remedy. 23% Alc., 73m. Ether to oz.
 Winslow's Soothing Syr. 5% Alc., 1-10 gr. Opl. to oz.
 Wintersmith's Tonic Syr. 27% Alc.
 Wire Fence Lini. O.K.
 Wishart's Pine Tree Cord. 17% Alc.
 Wister's Balsam. 15% Alc., $\frac{1}{2}$ gr. Opl. to oz.
 Witch Hazel. 15% Alc.
 Wizard Oil. 70% Alc.
 Wolford Sanitary Lotion. O.K.
 Women's Health Restorer. O.K.
 Woodbury's Hair Tonic. 41% Alc.
 Wood's Pine Syr. Comp. 20% Alc., $\frac{1}{2}$ gr. Morph., 9m. Chlorof. to oz.
 Wooster's Corn & Bunion Remedy. 19% Alc.
 Wray's Rheu. & Malarial Cure. 2% Alc.
 Wrightman's Sovereign Balm of Life. 20% Alc.
 Wright's Instant Relief. 3.5% Alc., 8m. Opl. to oz.
 Pills. O.K.
 Rheu. Remedy. 6% Alc., 2m. Ether.
 Wyeth's Steretol. 6% Alc.
 Liquid Rennet. 19% Alc.
 Prepared Food. 20% Alc.
 Sage and Sulphur. 2% Alc.
 Yankee Headache Po. 4 grs. Acetanilid to po.
 Zaegel's Ess. 22% Alc.
 Zemo. 36% Alc.
 Zimmer's Caffein & Acetanilid Comp. 2 grs. Acetanilid to oz.
 Zipp. O.K.
 Zmo. O.K.
 Zokoz. O.K.
 Zorophora. 16% Alc.
 Zozodont. 37% Alc.
 Zuma-Anana. 20% Alc.

PERCENTAGE OF ADULTERATION OF DRUGS IN INDIANA

1908



the training they received in college. It is to be regretted that so much of the work of the modern druggist is performed in the front part of the store, and that so little time is given to those important pharmaceutical practices which differentiate the real druggist from the mere purveyor of toilet articles, soda waters and patent medicines.

A report of the inspection of drug stores shows the sanitary conditions to be on the whole very satisfactory. Occasionally soda fountains have been found which were unclean, where floors were dirty and littered, and where sidewalls and ceilings were covered with soot and cobwebs accumulated during past years. Of the drug stores inspected during the year 57 were in excellent condition, the stock was well kept, free from dust and neatly arranged. The mirrors and glassware were polished and shining, floors were scrupulously clean, and the prescription case showed every evidence of being in the hands of a neat and competent clerk. Eight hundred and eight stores were in good condition and 167 were in fair shape. Second and third inspections have always shown a decided improvement and a desire on the part of the proprietor to satisfy the demands of the exacting inspector. While stocks of patent and proprietary goods on hand at the time the new law went into effect were in many instances not properly labeled, the trade was careful to set aside such goods, marked "Not for sale," till they could be properly labeled and put back in stock. The amount of old goods that had been cumbering the shelves of druggists for years was astonishing even to the druggists themselves. Many preparations were found taking up valuable space that bore the tax stamp issued during the civil war. Other goods, still possessing some life as sellers and occasionally demanded, were in such a condition of uncleanness that they were unsalable. All such goods were forced off the shelves by the new law to make way for quick-selling new goods or more profitable preparations. The loss to the trade, because of the inability to dispose of notoriously fraudulent preparations may have in the aggregate amounted to considerable, but no one realized better than the drug trade itself the benefit to business and good morals of the general housecleaning which has taken place this last year.

AQUA AMMONIA.

One hundred and thirteen samples of aqua ammonia were analyzed this year. Of this number 50 were pure and 63 were below standard. This is equivalent to a percentage of adulteration of 55.7. This high percentage is due entirely to carelessness on

BEESWAX (YELLOW)—LEGAL.

Lab. No.	Name.	Address.	Butyro at 65° C.	Melting Point.	Per Cent. U. S. P.
9863	A. C. Pilkenton.....	Greenfield.....	32.1	62.5	100.0
9875	M. C. Quigley.....	Greenfield.....	30.7	63.5	100.0
9886	V. L. Early.....	Greenfield.....	31.2	62.5	100.0
10010	Beam & Lynn.....	New Castle.....	30.9	63.0	100.0
10018	G. F. Mowrer.....	New Castle.....	30.5	63.0	100.0
10244	Rothinghouse Bros.....	Jonesboro.....	30.5	65.0	100.0
10251	W. B. Teeter.....	Upland.....	30.9	64.5	100.0
10270	Lawshe Drug Store.....	Swayzee.....	30.0	62.5	100.0
10579	J. W. Meiser.....	Monticello.....	30.5	63.0	100.0
10922	Badger & Green.....	Greencastle.....	30.3	65.0	100.0
12543	Chickasaw Pharmacy.....	Peru.....	31.3	65.5	100.0

BEESWAX (YELLOW)—ILLEGAL.

Lab. No.	Name.	Address.	Butyro at 65° C.	Melting Point.	Remarks.
10927	J. C. Marsh.....	Danville.....	13.9	49.0	Colored paraffin.
11674	E. Roquet.....	Indianapolis.....	19.0		¹ Paraffin 65 to 70%.

¹Saponification value 26.8.

CASTOR OIL.

Ten samples of castor oil were analyzed, all of which were found to meet the U. S. P. requirements. The adulteration of the well-known oils seems to be little practiced.

CASTOR OIL—LEGAL.

Lab. No.	Name.	Address.	Specific Gravity at 25° C.	Butyro at 20° C.	Polarization.
9892	W. S. Pugh.....	Greenfield.....	.9570	79.8	12.6
9892	W. S. Early.....	Greenfield.....	.9570	80.4	12.7
9907	A. C. Fouche.....	Knightstown.....	.9580	80.3	12.6
9915	M. Reeves.....	Knightstown.....	.9575	80.5	12.7
9922	J. T. Butler.....	Knightstown.....	.9570	80.3	12.5
10008	Wm. N. Pence.....	New Castle.....	.9565	80.9	12.6
10027	L. E. Kinsey Co.....	New Castle.....	.9570	80.4	12.6
10034	Ed Smith.....	New Castle.....	.9565	80.5	12.6
10247	W. B. Teeter.....	Upland.....	.9575	80.0	12.7
10274	P. R. McLeod.....	Summitville.....	.9570	80.3	12.9

COMPOUND LICORICE POWDER.

Of the eleven samples of compound licorice powder analyzed, nine were found to be legal. The other two samples were evidently plain licorice powder.

PAREGORIC.

Fifteen samples of paregoric were analyzed and in most instances the composition was satisfactory.

PAREGORIC—LEGAL.

Lab. No.	Name.	Address.	Specific Gravity at 20° C.	Benzoic Acid. Grams per 100 C.C.	Alcoholic Volume at 20° C.	Opium.	Oil Anise.	Glycerine.	Camphor.
9220	L. A. Riley & Sons.....	Corydon.....	.9475	4.004	41.6	+	+	+	+
9221	L. A. Riley & Sons.....	Corydon.....	.9390	0.241*	44.2	+	+	+	+
9346	E. F. Cummings.....	Cannelton.....	.9548	0.517	37.7	+	+	+	+
9599	Morrison & Depres.....	Shelbyville.....	.9475	0.550	42.5	+	+	+	+
11035	J. S. Wills.....	Bicknell.....	.9377	0.368	48.9	+	+	+	+
11263	Geo. W. Haynes.....	Evansville.....	.9530	0.230*	41.7	+	+	+	+
11269	H. Tepe.....	Evansville.....	.9595	.....	38.8	+	+	+	+
11848	Sent in from Zionsville.....	.....	.....	0.360	.....	+	+	+	+
11895	A. S. Kluth.....	Lafayette.....	.9405	.....	.....	.....	.....	.....	.....
11896	G. T. Driscoll.....	Lafayette.....	.9213	.....	.....	.....	.....	.....	.....
11914	Barton Cassody.....	West Terre Haute.....	.....	0.47	.....	+	.....	+	.....
11917	Geo. L. Barry.....	West Terre Haute.....	.....	0.490	.....	+	.....	+	.....
12356	White & Gillis.....	Clinton.....	.....	.....	46.5	+	.....	.....	.....
12359	Walter Allen.....	Greencastle.....	.....	.....	50.0	+	.....	.....	.....
12361	Fred Keller.....	Brazil.....	.....	.....	49.5	+	.....	.....	.....

*Low in benzoic acid.

POTASSIUM CYANIDE.

Seven of the 12 samples of potassium cyanide were below the pharmacopoeial requirements. This is due undoubtedly to a practice of the trade of handling cyanide of different strengths. This practice is unfortunate, since the chief use of the preparation, and a use which is constantly growing, is among nursery men who employ the poison in fumigating nursery stock. If low grade cyanide is used where the formula calls for full strength goods, the result of the disinfection may be unsatisfactory, in which case the false sense of security felt by the planter of fruit trees may result in a spread of destructive pests among his orchards.

POTASSIUM CYANIDE—LEGAL.

Lab. No.	Name.	Address.	Per Cent. CN.	Per Cent. KCN.	Remarks.
10871	W. B. Douglass.....	Indianapolis.....	37.1	92.9	.....
10873	W. B. Douglass.....	Indianapolis.....	38.9	97.6	.....
10874	W. B. Douglass.....	Indianapolis.....	40.1	100.4	.....
10992	Rose Hill Nursery.....	Scotland.....	39.2	98.2	.....
11822	S. W. Kepler.....	Pulaski.....	39.1	98.0	.....

SPIRIT OF CAMPHOR.

POLARISCOPE READINGS.

Number.	Druggists' Sample.	Laboratory Samples.	
		U. S. P. Method.	Not U. S. P. Method.
1.	9.4	11.9	11.9
2.	10.5	11.9	11.9
3.	10.8	11.9	11.9
4.	10.4	11.9	11.9
5.	8.7	11.9	11.9
6.	9.8	11.9	11.9
7.	10.5	11.9	11.9
8.	10.5	11.9	11.9
9.	11.1	11.9	11.9
10.	10.6	11.8	11.8

SPIRIT CAMPHOR—LEGAL.

Lab. No.	Name.	Address.	Specific Gravity at 20° C.	Alcohol Volume at 20° C.	Per Cent. U. S. P.
10265	W. G. Sims	Swayzee	.8325	82.5	112.5
10272	P. R. McLeod	Summitville	.8387	79.2	108.3
10485	A. H. Fehring	Columbus	.8313	88.4	109.1
10496	T. F. Noblett	Columbus	.8400	78.8	165.9
10518	Geo. W. Dalton	Coal City	.8352	80.7	115.0
10950	F. V. Stucky	Gosport	.8300	83.6	103.3
11085	Sent in from	Martinsville			100.8
11093	H. M. Holmes	Columbus			113.3
11008	Jackson Drug Co.	Angola			113.3
11010	H. E. Kratz	Angola			115.8
11210	Wm. J. Hamilton	Linton	.8255	84.0	100.6
11211	Theo. B. Shaffer & Co.	Sullivan	.8343	80.7	125.0
11227	Knopp & Sen	Flora	.8308	82.5	104.4
11330	A. T. Masters	Lebanon	.8318	82.5	104.1
11353	Muts & Lynch	Edinburg	.8305	82.5	116.6
11378	Homer Clossen	Logansport	.8373	79.9	130.8
11426	Zahart & Flood	Laporte	.8337	79.9	116.6
12135	F. P. Johnson & Co.	Rushville	.8345	82.9	103.3
12166	Julius A. Haag	Indianapolis	.8382	82.9	100.0
12177	H. O. Atchinson	Indianapolis	.8317	82.2	120.8
12179	Francis Pharmacy Co.	Indianapolis	.8323	82.2	110.8
12187	W. E. Axline	Noblesville	.8295	82.9	115.0
12190	Gerter Bros.	Noblesville	.8267	83.6	100.0
12207	O. P. Winders	Arcadia	.8780	65.7	103.3
12217	F. H. Carter	Indianapolis	.8353	80.0	119.1
12228	L. Haag	Indianapolis	.8317	82.5	101.6
12245	Robt. Blodau	Indianapolis	.8320	76.9	104.1
12301	Vermilion Pharmacy	Bloomington	.8325	80.4	110.8
12310	Bowles Bros.	Bloomington	.8315	81.1	102.5
12325	C. E. Franklin	Bedford	.8292	82.5	103.3
12333	Beddoe & Christie	Bedford	.8313	81.4	108.3
12336	J. P. Riley	Paoli	.8357	80.0	100.0
12337	S. F. Teaford	Paoli	.8355	80.0	118.3
12427	W. H. Peters	Madison	.8332	81.5	113.3
12432	W. H. Rogers	Madison	.8310	83.2	100.0
12441	Gibson & Riedel	Madison	.8343	81.8	100.0
12451	Don Davis	North Vernon	.8335	83.0	118.3
12456	J. L. Doggett	North Vernon	.8297	81.1	105.0
12468	H. Brewer	Greenwood	.8321	83.0	108.3
12475	Overman Pharmacy	Marion	.8308	82.5	100.0
12480	A. W. Leedy	Marion	.8318	81.1	104.1
12525	R. E. Murphy	Peru	.8280	83.0	102.5
12532	Thiebaud & Co.	Peru	.8343	81.1	109.1
12618	B. F. Fendie	Rensselaer	.8315	80.8	105.0
12623	W. D. Handley	Monon	.8320	80.8	100.0

SPIRIT OF CAMPHOR—ILLEGAL.

Lab. No.	Name.	Address.	Specific Gravity at 20° C.	Alcohol Volume at 20° C.	Per Cent. U. S. P.
10033	Ed Smith.....	New Castle.....	8568	74.1	66.6
10248	W. B. Teeter.....	Upland.....	8672	84.4	85.0
10257	Conwell & Son.....	Van Buren.....	8325	81.8	81.6
10259	Fred Drake.....	Van Buren.....	8557	64.1	72.5
10298	Hawhee Drug Store.....	Swayzee.....	8300	83.3	82.6
10278	Howard Bros.....	Summitville.....	8268	47.0	60.8
10302	Shafel's Drug Store.....	Plymouth.....	8377	84.4	72.5
10360	D. P. Campbell & Bro.....	Muncie.....	8325	82.5	87.5
10405	Chas. E. Greger.....	Browstown.....	8308	89.2	95.0
10480	J. W. Dunhour.....	Clay City.....	8327	88.4	95.0
10501	Ernest Stalkuth.....	Columbus.....	8328	88.4	97.5
10503	Houser & Updegraff.....	Columbus.....	8306	83.6	88.3
10505	H. M. Holmes.....	Columbus.....	8217	76.1	69.0
10512	Mutz & Lynch.....	Edinburg.....	8217	88.4	69.1
10648	J. S. Harris.....	Spencer.....	8304	68.5	67.5
10655	Edgar Tarleton.....	Martinsville.....	8307	55.5	96.0
10658	J. M. Carleton.....	Martinsville.....	8308	88.4	81.6
10662	B. W. Bass & Son.....	Martinsville.....	8688	74.9	90.8
10683	Roland Cress.....	Lyons.....	8944	61.4	93.3
10905	J. R. and J. Hartre.....	North Manchester.....	8945	60.3	80.0
10906	Chas. B. Gibben.....	North Manchester.....	8293	84.4	62.5
10924	Fadger & Green.....	Greencastle.....	9829	83.6	85.0
10926	Julius C. Marsh.....	Danville.....	8295	84.4	90.6
10932	John F. Neiger.....	Danville.....	8213	97.3	45.0
10937	C. O. Haines.....	Danville.....	8315	82.5	90.0
10945	Lingenfelter & Co.....	Danville.....	8570	76.1	75.0
10943	W. L. Wilson.....	Danville.....	8878	63.2	98.3
10990	Ashton Stamon.....	Auburn.....	8285	85.5	83.3
10992	H. M. Phillips.....	Auburn.....	9190	50.1	53.3
11005	Wysong Drug Co.....	Angola.....	8343	82.5	88.3
11026	Jacob F. Scudder.....	Edwardsville.....	8930	60.3	78.3
11041	Geo. W. Bass & Son.....	Mooreville.....	8587	74.9	80.0
11048	J. J. Leslie & Son.....	Jasonville.....	8323	82.5	89.0
11057	J. F. Danner & Son.....	Elnora.....	8175	88.3	17.5
11059	Omar Cavens.....	Odon.....	8260	84.7	76.6
11061	D. Gantz & Son.....	Odon.....	9155	52.9	26.6
11068	John H. Moore.....	Worthington.....	8770	67.4	70.0
11213	D. A. Bruner.....	Sandburn.....	8322	83.6	97.5
11226	Euler & Crume.....	Flora.....	8315	82.5	95.0
11228	Fred Armick.....	Cumden.....	8460	78.1	53.3
11248	Jones Bros.....	Fowler.....	8321	81.8	95.8
11246	Sent in from.....	Edinburg.....	8275	82.0	80.0
11291	W. G. Williams.....	Valparaiso.....	9150	50.5	75.0
11295	Corner Drug Store.....	Valparaiso.....	8238	86.2	65.0
9992	Peoples Drug Store.....	Plymouth.....	8310	82.5	88.3
11321	Shelburne Broc.....	Zionsville.....	8258	84.4	95.0
11325	Abner A. Garner.....	Lebanon.....	8640	71.1	76.6
11326	Fred Combs.....	Lebanon.....	8260	84.4	83.3
11327	Alfred B. Jones.....	Lebanon.....	8380	78.1	84.1
11342	Geo. Coulson.....	Thorntown.....	8287	83.6	94.1
11346	J. M. Fox.....	Lebanon.....	8220	85.5	39.1
11349	Arnett McFeren.....	Independence.....	8657	71.1	30.8
11350	A. M. Boor Estate.....	Veedsburg.....	9233	49.4	27.5
11351	A. M. Boor Estate.....	Veedsburg.....	8315	83.6	74.1
11352	Arthur A. Osborne.....	Thorntown.....	8275	83.6	81.6
11366	W. A. Scheddell.....	Crown Point.....	9018	52.2	72.5
11368	Dr. H. P. Schwartz.....	Crown Point.....	9108	51.2	45.8
11371	Lee Turman.....	Logansport.....	8338	81.8	79.1
11377	W. H. Porter.....	Logansport.....	8.78	83.6	75.8
11380	Red Cross Pharmacy.....	Logansport.....	8308	82.5	91.6
11383	J. M. Grigsby.....	Logansport.....	8812	65.0	63.3
11434	Sent in from.....	Rochester.....	8307	92.5	88.3
11545	White Drug Store.....	Wabash.....	8285	84.7	90.8
11691	Sent in from.....	Zionsville.....	8245	85.5	84.1
11898	Geo. T. Driscoll.....	Lafayette.....	8270	85.5	79.1
11912	Miller Drug Co.....	Coalmount.....	8675	71.1	70.0
11913	Barton Casady.....	West Terre Haute.....	9153	50.9	87.5
12122	Harzore & Mullen.....	Rushville.....	8325	82.9	87.5
12128	Thos. W. Lytle.....	Rushville.....	8300	82.9	87.5
12130	Frank Walcott.....	Rushville.....	8283	84.4	80.8
12138	Rob. Navin.....	Indianapolis.....	8325	82.9	95.9
12141	Lou Stockman.....	Indianapolis.....	8235	84.4	72.5
12146	Ed Stucky.....	Indianapolis.....	8407	82.9	92.6
12153	Geo. Weber.....	Indianapolis.....	8265	84.4	88.3
12156	Ed Fenger.....	Indianapolis.....	8415	72.2	87.5

SPIRIT OF CAMPHOR—ILLEGAL—Continued.

Lab. No.	Name.	Address.	Specific Gravity at 20° C.	Alcohol Volume at 20° C.	Per Cent. U. S. I.
12160	D. M. Maloney.....	Indianapolis.....	.8907	61.4	53.3
12162	J. J. Keene.....	Indianapolis.....	.8283	82.9	86.6
12164	Ed Fenger.....	Indianapolis.....	.9610	72.9	87.5
12165	Edgar H. Wilson.....	Indianapolis.....	.8347	81.1	99.1
12170	Waddell & Walterhouse.....	Indianapolis.....	.8565	74.7	87.5
12174	W. H. Burget.....	Indianapolis.....	.8287	82.9	81.6
12192	Chas. Mitchell.....	Noblesville.....	.8295	83.6	89.1
12195	A. G. Baldwin.....	Noblesville.....	.8287	83.3	79.1
12198	Frank E. Ross.....	Noblesville.....	.8670	69.6	92.5
12200	J. C. Scott.....	Atlanta.....	.8278	84.4	80.0
12203	T. E. Morris.....	Atlanta.....	.8313	82.9	32.5
12209	Sent in from.....	Arcadia.....	.9433	38.0	24.1
12341	Boyd & Knox.....	Paoli.....	.8250	54.4	25.0
12314	T. W. Hollenbeck.....	Indianapolis.....	.8267	82.9	72.5
12222	J. C. Mead.....	Indianapolis.....	.8292	82.9	90.0
12224	H. D. Bassett.....	Indianapolis.....	.8287	83.6	87.5
12231	J. C. Clark.....	Indianapolis.....	.8285	83.6	78.3
12238	Wm. Birk.....	Indianapolis.....	.8615	71.4	75.0
12240	A. M. Eyster.....	Indianapolis.....	.8293	83.6	81.6
12247	J. F. McKee.....	Indianapolis.....	.8457	81.8	92.5
12250	J. A. Conkey.....	Indianapolis.....	.8293	82.9	95.8
12254	C. T. Bedford.....	Indianapolis.....	.8283	82.9	95.8
12258	Gus Fenger.....	Indianapolis.....	.8298	82.5	93.3
12262	I. N. Heims.....	Indianapolis.....	.8506	81.8	87.5
12269	A. Bowen.....	Indianapolis.....	.8318	90.7	79.1
12273	J. A. Haag.....	Indianapolis.....	.8572	81.8	87.5
12276	E. H. Wilson.....	Indianapolis.....	.8343	80.7	96.6
12284	Carnex Bros.....	Indianapolis.....	.8313	81.1	96.6
12288	L. B. King.....	Indianapolis.....	.8273	83.3	77.5
12297	H. H. Jefferies.....	Bloomington.....	.8303	81.1	87.5
12306	Wood Wiles.....	Bloomington.....	.8303	81.4	93.3
12307	John O'Harrow.....	Bloomington.....	.8322	82.5	80.8
12315	C. O. Myles.....	Bloomington.....	.8228	83.6	92.5
12318	T. J. Penrod.....	Bloomington.....	.8258	83.6	87.5
12349	Dodd & Douthitt.....	Bedford.....	.8350	90.7	85.0
12338	Acstin & Son.....	Bedford.....	.8320	81.4	76.6
12360	Walter Allen.....	Greencastle.....	.8273	80.8	88.3
12422	W. G. Haberhart.....	Madison.....	.8325	82.5	90.8
12437	J. E. C. F. Harper & Co.....	Madison.....	.8285	84.0	95.0
12444	Jas. Hargan, Jr.....	Madison.....	.8237	85.5	68.3
12448	J. M. Dills.....	North Vernon.....	.8309	83.0	93.3
12472	Bradley Bros.....	Marion.....	.8382	32.5	68.3
12485	W. M. Hildebrand.....	Marion.....	.8433	79.2	83.3
12488	J. A. Thomas.....	Marion.....	.8735	68.5	96.6
12490	Froel & Mason.....	Marion.....	.8278	83.2	91.6
12494	John Davis.....	Marion.....	.8888	62.2	72.5
12497	R. L. Lander.....	Marion.....	.8295	83.2	80.0
12528	W. Haymaker.....	Peru.....	.8315	81.8	91.6
12534	Blue Drug Store.....	Peru.....	.8317	83.0	95.8
12539	Chickasaw Pharmacy.....	Peru.....	.8291	83.6	81.6
12545	S. F. Porter.....	Peru.....	.8317	80.8	92.5
12572	Sent in from.....	Indianapolis.....	.8312	85.0	96.6
12607	J. A. Larsh.....	Rensselaer.....	.8572	72.2	75.8
12729	Sent in from.....	Indianapolis.....	.8317	79.8	93.2
12749	King's Drug Store.....	Indianapolis.....	.8328	79.4	93.2
12807	Sent in from.....	Lebanon.....	.8323	81.8	93.2

TINCTURE OF FERRIC CHLORIDE—ILLEGAL

Lab. No.	Name.	Address.	Per Cent. Iron.	Alcohol Volume at 20° C.	Specific Gravity at 20° C.	Per Cent. U. S. P.
9981	R. E. Clark.....	Wabash.....	4.45	66.4		97.2
9996	E. Gackenhimer.....	Wabash.....	4.37	56.6		95.6
9718	Bradley Bros.....	Wabash.....	4.32	65.7		94.5
9750	R. E. Eveleigh.....	Bloomfield.....	4.40	34.1		96.0
9624	N. M. Mendenhall.....	Brasil.....	3.27	66.4		71.5
9629	E. R. Stevens.....	Newport.....	4.47	68.4		97.8
9637	M. C. Van Dorn.....	Covington.....	3.87	37.7		84.7
10320	Sent in from.....	Brasil.....	3.27			71.5
10304	Miller & Keith.....	Rochester.....	4.22	42.1		92.2
10333	Chas. Mason.....	Dugger.....	4.02	67.5		87.8
10613	Pierre T. Jett.....	Clay City.....	3.00	67.5		65.5
10614	Craig & Boggs.....	Churubuseo.....	3.55	63.6		77.5
10649	F. O. Stucky.....	Gosport.....	4.3	54.7	.9963	93.4
11455	Sent in from.....	Rochester.....	4.475			97.7
12374	W. C. Duncan.....	Clay City.....				98.5
12383	Shertzer Bros.....	Bloomfield.....				96.1
12399	Moore's Drug Store.....	Worthington.....				75.9
12574	Jett's Drug Store.....	Clay City.....				93.2
12751	Sent in from.....	Clay City.....	4.40	52.0	.9954	96.2

TINCTURE OF OPIUM. (*Tinctura Opii.*)

But two of the eight samples of tincture of opium contained sufficient morphine to meet the U. S. P. requirements.

TINCTURE OF OPIUM.

Lab. No.	Name.	Address.	Grams Morphine in 100 C.C.	Remarks.
7763	W. F. Peters.....	Seymour.....	1.460	Legal.
9230	John Weigthy.....	Huntingburg.....	1.279	Legal.
9000	E. H. Wilson.....	Indianapolis.....	0.778	Illegal.
9001	Chas. W. Eichrodt.....	Indianapolis.....	0.958	Illegal.
9219	Watson Drug Co.....	Corydon.....	0.704	Illegal.
9231	A. H. Miller, Jr.....	Huntingburg.....	1.161	Illegal.
9596	Morrison & Depres.....	Shelbyville.....	1.007	Illegal.
9744	Reed & Batey.....	Sullivan.....	1.180	Illegal.

TINCTURE OF IODINE. (*Tinctura Iodi.*)

One hundred and ninety-six samples of tincture of iodine were analyzed during the year. Of this number 85, or 43.3 per cent, were found to meet the U. S. P. requirements. Most of the illegal samples were collected prior to June 1. Of the large number of samples collected during the month of June, but few were found to be below standard. It is probable that the work of the coming year will show a still greater improvement in the character of this well known and easily manufactured preparation. The only explanation for the low grade of many samples of tincture of iodine is that the druggists did not use a sufficient quantity of sublimed iodine. As shown elsewhere tincture of iodine does not lose strength, but on the contrary, constantly grows stronger as the alcohol evaporates.

TINCTURE OF IODINE—LEGAL—Continued.

Lab. No.	Name	Address.	Per Cent. U. S. P.
12527	W. Hamaker.....	Peru.....	137.4
12536	Blue Drug Store.....	Peru.....	104.9
12538	Chickasaw Pharmacy.....	Peru.....	106.9
12544	S. F. Porter.....	Peru.....	103.6
12624	W. D. Handly.....	Monon.....	100.0
12755	Granger Drug Store.....	Indianapolis.....	100.5
13087	Jennings & Son.....	Brookston.....	100.5

TINCTURE OF IODINE—ILLEGAL.

Lab. No.	Name.	Address.	Per Cent. U. S. P.
9638	L. E. Green.....	Connersville.....	60.1
9641	O. Elliott.....	Connersville.....	86.2
9679	Sent in from.....	Franklin.....	92.4
9954	Edgar Tarleton.....	Martinsville.....	74.1
10001	Shadel's Drug Store.....	Plymouth.....	78.8
10003	J. W. Rinard.....	Plymouth.....	97.9
10012	Beam & Lynn.....	New Castle.....	69.7
10072	Woodson & Willetts.....	Michigan City.....	92.8
10093	E. W. Lindemann.....	Michigan City.....	92.8
10121	J. H. Clark & Son.....	Princeton.....	65.3
10123	F. J. Biggs.....	Princeton.....	99.4
10125	H. G. May.....	Princeton.....	99.1
10142	Ed Shoptaugh.....	Princeton.....	92.8
10146	Jos. F. Schaffer.....	Poseyville.....	68.9
10277	Howard Bros.....	Summittville.....	83.6
10305	Miller & Keith.....	Rochester.....	88.8
10313	Alex. Rub.....	Rochester.....	84.4
10325	E. M. Shore.....	Rochester.....	27.1
10329	Chas. Majors.....	Dugger.....	81.1
10239	I. L. Klingensmith.....	Gas City.....	78.5
10307	Geo. V. Davis.....	Rochester.....	91.7
10403	John B. Burrell.....	Brownstown.....	64.5
10404	Chas. E. Greger.....	Brownstown.....	80.3
10406	O. R. Emerson.....	Brownstown.....	88.4
10410	Samuel M. Smith.....	Osgood.....	80.3
10509	Taylor & Roth.....	Edinburg.....	86.6
10613	Craig & Boggs.....	Churubusco.....	74.4
10617	W. L. Piper.....	Denver.....	91.7
10643	Wm. Moss & Co.....	Spencer.....	37.7
10664	Jas. S. Simons.....	Lyons.....	76.6
10688	McConnell & Logan.....	Monticello.....	77.0
10690	Monticello Drug Co.....	Monticello.....	93.2
10724	J. W. Rinard.....	Plymouth.....	93.9
10751	Dr. R. C. McCain.....	Kentland.....	91.7
10785	Rolland Cress.....	Lyons.....	86.2
10803	G. B. Gray.....	Worthington.....	78.1
10808	Thos. E. Rainer.....	Covington.....	81.1
10834	Jas. F. Lankford.....	Clay City.....	91.3
10855	Lee Thomas.....	Brazil.....	75.5
10907	Smith Drug Store.....	Winamac.....	52.7
10908	Mac Capper.....	Winamac.....	67.5
10989	Ashton Stamon.....	Auburn.....	93.4
10991	H. B. McCord.....	Auburn.....	95.5
10993	H. M. Phillips.....	Auburn.....	85.7
11006	Peoples Drug Store.....	Angola.....	46.5
11032	John G. Hart.....	Bicknell.....	68.2
11047	J. J. Lacy & Son.....	Jasonville.....	85.1
11042	Peoples Drug Store.....	Mooreville.....	68.6
11060	D. Gants & Son.....	Odon.....	79.6
11069	M. J. McIntosh.....	Midland.....	52.8
11070	W. L. Stay.....	Odon.....	84.7
11071	Odon Drug Co.....	Odon.....	48.0
11072	J. F. Danner & Son.....	Elnora.....	66.0
11231	P. W. VanGundy.....	Rockfield.....	64.5
11277	A. Woodruff.....	Ligonier.....	34.1
11279	S. T. Eldred.....	Ligonier.....	91.7
11300	Heinemann & Sievers.....	Valparaiso.....	63.1
11343	Geo. Coulson.....	Thorntown.....	66.7
11365	W. A. Shaddell.....	Crown Point.....	88.6
11367	Dr. H. P. Swartz.....	Crown Point.....	61.3
11427	Zahrt & Flood.....	Laporte.....	85.2

[22—22268]

BORAX—LEGAL.

Lab. No.	Name.	Address.	Remarks.
9886	A. C. Pilkenton.....	Greenfield.....	U. S. P.
9883	W. S. Pugh.....	Greenfield.....	U. S. P.

CINNAMON OIL—LEGAL.

Lab. No.	Name.	Address.	Specific Gravity at 20° C.	Polarization.	Per Cent. Cinnamic Aldehyde.
9871	M. C. Quigley.....	Greenfield.....	1.0612	+ 14.0	77.6
9880	V. L. Early.....	Greenfield.....	1.0615	+ 2.2	80.0

CEDAR OIL—LEGAL.

Lab. No.	Name.	Address.	Specific Gravity at 20° C.	Butyro at 20° C.	Polarization 100 M. M. Tube.	Soluble Volume 90 Per Cent. Alcohol.
10805	Wood Wiles.....	Bloomington.....	.8825	67.2	+ 22.8	5
11332	Waneborough & Akerman	Lebanon.....	.9078	67.6	+ 3.4	5

COD LIVER OIL—LEGAL.

Lab. No.	Name.	Address.	Specific Gravity at 25° C.	Butyro at 20° C.	Saponification Value.	Iodine Value.	Remarks.
9637	L. E. Green.....	Connersville.....	.9205	79.3	183.5	152.1	Answers U. S. P. requirements. ¹
9874	M. C. Quigley.....	Greenfield.....	.9195	79.2	176.9	150.7	Answers U. S. P. requirements. ¹

¹The U. S. P. color reaction for other fish oils positive in both samples.

MISCELLANEOUS DRUGS AND CHEMICALS.

Lab. No.	Article.	Name and Address of Manufacturer or Dealer.	Remarks.
10019	Gum camphor.....	H. F. Mowrer, New Castle.....	U. S. P.
10296	Calomel, powders.....	Sent in from Vallee.....	HgCl ₂ 17.4%; NaHCO ₃ 79.1%; moisture 3.4%.
10377	Lime.....	Eli Lilly & Co., Indianapolis.....	20. K.
10378	Compressed lime tablets.....	John Wyeth & Bro., Philadelphia.....	G. K. Lime water from tablets = 103.6%.
10596	1/4 Gr. codeine sul. tab.....	Sent in from Hamlet.....	Codeine present. No morphine.
10742	Zinc sulphate.....	H. L. Zimmer, Indianapolis.....	U. S. P. except excess chloride.
10743	Pot. chlorate.....	H. E. Zimmer, Indianapolis.....	U. S. P.
10744	Sugar of lead.....	H. E. Zimmer, Indianapolis.....	U. S. P. except had effloresced.
11083	Peroxide of hydrogen.....	Sent in from Indianapolis.....	H ₂ O ₂ 2.5%. Excess acid.
11205	Toilet preparation.....	Sent in from Hymer.....	Mercuric chloride present.
11208	Quinine sulphate.....	Pierson's Cut Price Drug Store, Indianapolis	U. S. P.
11301	Powdered capsicum.....	Heinemann & Sievers, Valparaiso.....	Pure
11307	Sodium salicylate.....	Toledo Pharmaceutical Co., Toledo, Ohio.....	Sodium salicylate 78.4; below standard.
11563	Quinine capsules, 3-gr.....	Sent in from Indianapolis.....	3-gr. calomel present.
11807	Boric acid.....	Sent in.....	Boric acid 96.8; very dirty.
11994	Damask rose color paste.....	Jos. Burnett Co., Chicago.....	Amaranth red No. 107; legal.
12912	Borax.....	Sent in from Indianapolis.....	Found to be potassium chlorate.

¹Each powder contains 1.26 grains of calomel.

²Lime water made from this lime equals 121.5% U. S. P.

³These capsules were suspected of containing calomel.

WINTERGREEN OIL.

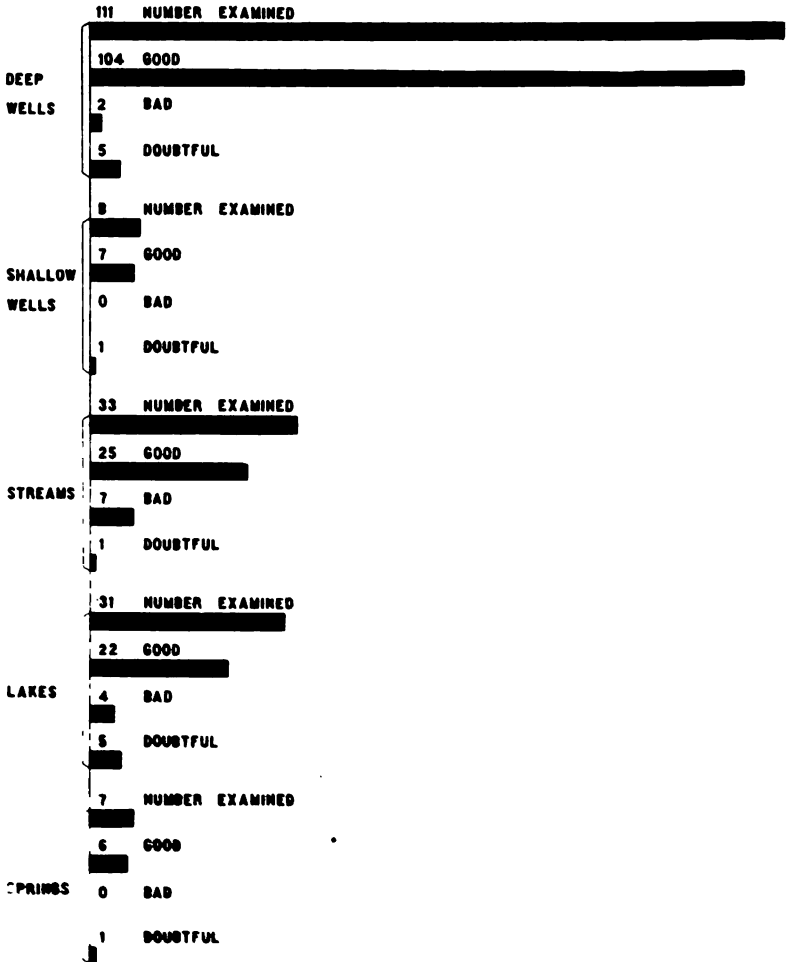
Lab. No.	Name.	Address.	Specific Gravity at 20° C.	Polarisation 100 M. M. Tube.	Natural or Synthetic.	Remarks.
9370	M. C. Quigley.....	Greenfield....	1.179	-0.5	Natural.	Legal.
9390	V. L. Early.....	Greenfield....	1.179	-0.0	Synthetic.	Legal; Properly labeled.
9381	W. S. Pugh.....	Greenfield....	1.179	-0.0	Synthetic.	Illegal; not properly labeled.

RESULT OF ANALYSES OF DRUG SAMPLES.

ARTICLES EXAMINED.	Good.	Bad.	Total.	Per Cent. Adulterated.
Alcohol.....	3	0	3	0.0
Almond oil.....	3	0	3	0.0
Aqua ammonia.....	50	63	113	55.7
Bay rum.....	5	1	6	16.6
Beeswax, yellow.....	11	2	13	15.3
Beeswax, white.....	0	3	3	100.0
Borax.....	2	0	2	0.0
Castor oil.....	10	0	10	0.0
Cedar oil.....	2	0	2	0.0
Cinnamon oil.....	2	0	2	0.0
Cod Liver oil.....	2	0	2	0.0
Compound licorice powder.....	9	2	11	18.1
Essence peppermint.....	4	4	8	50.0
Glycerine.....	6	0	6	0.0
Lemon oil.....	4	1	5	20.0
Lime water.....	64	11	75	14.6
Linseed oil.....	3	1	4	25.0
Olive oil.....	29	0	29	0.0
Paregoric.....	15	0	15	0.0
Patent medicines.....			30	
Potassium cyanide.....	5	7	12	58.3
Powdered senna leaves.....	2	0	2	0.0
Precipitated sulphur.....	1	4	5	80.0
Quinine sulphate.....	7	0	7	0.0
Rochelle salts.....	3	0	3	0.0
Solution ferric chloride.....	2	0	2	0.0
Spirit of camphor.....	45	131	176	74.4
Spirit of turpentine.....	4	1	5	20.0
Sweet spirit of nitre.....	0	15	15	100.0
Tincture of arnica.....	2	0	2	0.0
Tincture of capsicum.....	24	24	48	50.0
Tincture of ginger.....	1	3	4	75.0
Tincture of iodine.....	85	111	196	56.6
Tincture of iron.....	9	19	28	67.8
Tincture of opium.....	2	6	8	73.3
Tinctures miscellaneous.....	14	1	15	6.6
Wintergreen oil.....	2	1	3	33.3
Witch Hazel.....	6	0	6	0.0
Miscellaneous drugs and chemicals.....	14	3	17	17.6
Miscellaneous articles.....			9	
Total.....	452	414	905	47.7

Report from Water Laboratory.

CONDITION OF PUBLIC WATER SUPPLIES IN INDIANA 1908



NOVEMBER 29—

Alum, 1.75 grains. B. coli. Raw, negative. Filtered, negative.

Sample from	Hours Filter in Use.	Bacteria per C. C.	According to Contract.	Time Taken.
Raw.....	.....	1370	.....	.....
Filter 2.....	.....	32	.....	8 a. m. by Brad-
Filter 3.....	4½	30	Yes.	ley.
Well.....	.....	.....	.....	.....
Raw.....	.....	950	.....	.....
Filter 2.....	2	300	No.	11:30 a. m. by
Filter 3.....	½	409	No.	Bradley.
Well.....	.....	113	.....	.....
Raw.....	.....	1090	.....	.....
Filter 2.....	6	467	No.	3:15 p. m. by
Filter 3.....	4	807	No.	Bradley.
Well.....	.....	555	.....	.....

¹No sample taken.

NOVEMBER 30—

Alum, 1.75 grains. B. coli. Raw, positive. Filtered, negative.

Sample from	Hours Filter in Use.	Bacteria per C. C.	According to Contract.	Time Taken.
Raw.....	.....	1400	.....	.....
Filter 2.....	4	46	Yes.	8 a. m. by Brad-
Filter 3.....	1	196	No.	ley.
Well.....	.....	39	.....	.....
Raw.....	.....	856	.....	.....
Filter 2.....	½	478	No.	11:30 a. m. by
Filter 3.....	2½	613	No.	Bradley.
Well.....	.....	436	.....	.....
Raw.....	.....	1180	.....	.....
Filter 2.....	5	450	No.	4 p. m. by Brad-
Filter 3.....	7	400	No.	ley.
Well.....	.....	425	.....	.....

DECEMBER 1—

Alum, 2.00 grains +. B. coli. Raw, negative. Filtered, negative.

Sample from	Hours Filter in Use.	Bacteria per C. C.	According to Contract.	Time Taken.
Raw.....	.....	4320	.....	.....
Filter 2.....	1	27	Yes.	8 a. m. by Brad-
Filter 3.....	2	35	Yes. <input checked="" type="checkbox"/>	ley.
Well.....	.....	104	.....	.....
Raw.....	.....	5780	.....	.....
Filter 2.....	3	71	Yes.	3 p. m. by Brad-
Filter 3.....	2½	34	Yes.	ley.
Well.....	.....	187	.....	.....

DECEMBER 9—

Alum, 2.50 grains. B. coli. Raw, negative. Filtered, negative.

Sample from	Hours Filter in Use.	Bacteria per C. C.	According to Contract.	Time Taken.
Raw.....	970	.....	2 p. m. by Bradley.
Filter 3.....	38	Yea.	
Well.....	36	Yea.	

DECEMBER 10—

Alum, 2.50 grains. B. coli. Raw, negative. Filtered, negative.

Sample from	Hours Filter in Use.	Bacteria per C. C.	According to Contract.	Time Taken.
Raw.....	1430	.....	1:30 p. m. by Bradley.
Filter 2.....	9	Yea.	
Well.....	26	Yea.	

DECEMBER 11—

Alum, 2.50 grains. B. coli. Raw, negative. Filtered, negative.

Sample from	Hours Filter in Use.	Bacteria per C. C.	According to Contract.	Time Taken.
Raw.....	1500	.....	1:30 p. m. by Bradley.
Filter 3.....	80	Yea.	
Well.....	25	Yea.	

DECEMBER 12—

Alum, 2.50 grains. B. coli. Raw, negative. Filtered, positive.

Sample from	Hours Filter in Use.	Bacteria per C. C.	According to Contract.	Time taken.
Raw.....	20	.....	4 p. m. by Bradley.
Filter 3.....	18	Yea.	
Well.....	2450	No.	

The samples taken December 12 were evidently marked wrong. The raw water coming in as the well, and the well as the raw water. It will be seen that by turning these samples around the results check up with those of the other dates. It would be impossible for the well water to contain 2,450 bacteria while the raw water contained but 20.

Respectfully submitted,

J. H. BREWSTER,
Water Chemist.

TABLE No. 2.

 CHEMICAL ANALYSES.
 (Parts in 100,000.)

Lab. No.	Date of Collection.	Odor.	Color.	Turbidity.	Sediment.	AMMONIA.		NITROGEN AS—		Chlorine.	Solids.		Hardness.	Iron.	B. Coli.
						Free.	Albuminoid.	Nitrates.	Nitrites.		Total.	Fired.			
510	Aug. 20, 1906	None	5.0	None	Much fine.	.0160	.0570	.0000	.0000	2.00	8.2	2.9	3.8	.00	Gas formers present.
511	Aug. 20, 1906	Decid. veg.	7.0	None	Con. floe.	.0112	.0298	.0200	.0003	.40	9.3	4.5	4.9	.01	Present.
939	Mar. 26, 1907	Very SL.	5.0	Ver SL.	Very SL.	.0014	.0198	.0300	.0003	.20	5.9	4.4	2.6	.02	Acid gas formers
11452	Dec. 4, 1907	None	50.0	None	SL floe.	.0024	.0164	.0000	.0000	.20	10.6	6.6	2.2	.04	Absent.
11453	Dec. 4, 1907	None	2.0	None	None	.0064	.0078	.0000	.0001	.20	4.8	3.4	0.8	.01	Absent.
11475	Dec. 17, 1907	None	46.0	None	None	.0018	.0062	.0000	.0000	.30	7.5	3.7	2.4	.02	Absent.
11476	Dec. 17, 1907	None	2.0	None	None	.0016	.0030	.0000	.0004	.30	7.7	6.2	0.3	.00	Absent.

 *Unfiltered water.
 **Filtered water.

well recently driven to a depth of 38 feet shows the general formation of the central portion of the area to be made up as follows: Clay, 5 feet; coarse yellow sand, carrying little water, 10 feet; hard packed sand and clay, impervious to water, 5 feet; sand and gravel, 18 feet. This last stratum carries an inexhaustible supply of water.

The water when pumped is free from color, odor and turbidity, and is in effect a filtered water of absolute purity so far as pollution by organic matter or sewage is concerned. Because of the large amount of iron-bearing formation through the entire region, the water contains considerable iron in solution as ferrous carbonate. When exposed to the air oxidation takes place and the iron is precipitated as the brown oxid of iron. The presence of iron to the extent of .22 parts per 100,000 in the water is its only objectionable feature.

CHEMICAL ANALYSIS.

Odor.....	None.
Color.....	2.0
Turbidity.....	Much on standing; more when first drawn.
Sediment.....	None.
Free ammonia.....	.0120
Albuminoid ammonia.....	.0055
Nitrates.....	.0050
Nitrites.....	.0000
Chlorine.....	1.2
Total solids.....	29.3
Fixed solids.....	29.0
Hardness.....	29.2
Iron.....	.22
Colon bacilli.....	Absent.

The effect of iron in potable waters may be best shown by reference to the following authorities:

Whipple, "The Value of Pure Water": "Iron-bearing waters are often very annoying to the householder. By precipitation of iron oxide they may render the water turbid, make stains of iron rust on clothes, choke up the pipes, tanks, etc., and form brown stains in marble washbowls under the faucets."

Tresh, "The Examination of Waters and Water Supplies": "In potable waters the iron, in probably all cases, occurs as ferrous carbonate kept in solution by an excess of carbonic acid. Upon exposure to air oxidation quickly occurs, and the water becomes more or less brown and opalescent. If more than a trace of iron is present a deposit of the oxidized product occurs. The unsightly appearance of such a water is generally sufficient to condemn it for domestic purposes. If the water contains enough iron to impart the characteristic chalybeate taste, it probably could not be considered wholesome. Although I have never heard of any ill effects following the continued use of a water containing a trace of iron, I should expect headache and constipation to be produced amongst those unaccustomed to its use. For washing purposes such a water is very objectionable, as it stains the clothes, the so-called iron-mould being due to the deposition of iron oxide within the fibres of the material affected."

Leffman: "The proportion of iron in water constantly used for drinking purposes should not much exceed three parts per million."

The water is practically free from bacteria.

Chemically, it is of excellent composition, except for the presence of iron to the extent of .22 parts per 100,000.

If this iron is objectionable because of its taste, effect on laundry work, or physiological action, it can readily be removed.

Yours very truly,

H. E. BARNARD.

Chemist to State Board of Health.

STATE LABORATORY OF HYGIENE,
INDIANAPOLIS, IND., July 7, 1908.

Dr. A. I. Donaldson, Washington, Ind.:

My Dear Doctor Donaldson—Herewith find a report of the inspection and test of the filtration plant at Washington, Ind., made by J. H. Brewster on June 29, and 30, July 1, 2 and 3:

"The filter plant and pumping station is located on the banks of White River, about four miles west of the city.

"The filter plant is constructed in a rectangular building 122 by 42½ feet. The north end contains two separate settling basins which are arranged so that one or both can be used at any time. The basins are each 60 by 20 feet and 12 feet deep. These basins are well baffled, to give the water a longer period of sedimentation, and are also equipped with a skimming device which allows only the best water to enter the filter beds. The filters are the design and construction of the Norwood Engineering Company. The filtering equipment consists of two fully equipped filters with sand beds of Mt. Tom sand, under which is a layer of gravel to protect the strainer system. Between the sand and gravel is an air system for agitation while washing the beds. The air is supplied by a Norwood air compressor. These filters are also equipped with loss-of-head gauges and rate-controllers. There are also two unequipped filters held in reserve to be equipped and put in service when increased consumption demands it. Each filter has a sand area of 13 feet 6 inches by 15 feet 8 inches, or 202½ square feet, and has a daily capacity of 525,000 gallons, the total filtering capacity of the plant being 1,050,000, or 1,000,000 gallons, with a goodly allowance for wash water. The water enters the settling basins by means of a Lawrence centrifugal pump, which is directly connected to a vertical high-speed engine. The coagulant is injected into the water through this pump. The water passes through the sedimentation basins by a gravity flow and enters the filters. The water filtering through them passes by gravity to the clear-water basin, from which it is pumped by a Worthington pump into a standpipe, from which the water is delivered to the consumer by gravity. In washing the filters, the water is taken off the high-service lines at the pumping station. The filters are so constructed that both air and water can be used at the same time, with no loss of sand.

"In addition to the filter plant and pumping station there is another feature of interest. An independent pipe line runs from the station to the Baltimore and Ohio Southwestern Railroad shops, which supplies unfiltered river water to them by means of a Holly pump that is used for this pur-

pose exclusively. The railroad uses about 500,000 gallons daily, and prefers raw water to the filtered.

"The water that is filtered is taken from White River about two hundred yards below the outlet of a creek which carries all the storm water of the city. The creek also receives the house sewage from the houses that have sanitary water-closets, and at flood times it receives the drainage from old coal mines. In other words, this creek is simply a trunk sewer for the city, and is not only a menace to public health in itself, but is a damaging feature for a wholesome water supply. The immediate removal of this source of pollution is demanded if the proper purification of the already contaminated river is to be expected.

"The work of sedimentation can be made most effective with the proper use of the coagulant. The coagulant is injected into the Lawrence centrifugal pump for the purpose of giving a thorough mixing. This is without doubt accomplished, but in my estimation it has a tendency to break up the hydrate of iron so as to form a very fine granular coagulant instead of one of a flocculent nature.

"The solution tanks for the coagulant are not equipped with an agitating device, and as this is very essential in obtaining an even strength of solution, it is necessary that such apparatus be installed.

"The only condemning feature of the plant that I could find is the condition of the sand-beds during the time of washing the filters. The beds have become packed and do not thoroughly break up during the washing. This may be due to several reasons: First, that the pressure of wash-water is not sufficient to thoroughly break up the beds. Second, that the strainer system under the packed portions have become stopped up. Third, that the filters have not been washed clean enough, allowing too much hydrate of iron to stay on the beds, and in this way uniting the sand grains to form a compact mass which is very hard to lift with the ordinary amount of wash-water. Another may be that there has not been enough coagulant used in the sedimentation basins, and as the sediment held in suspension in the water is largely fine particles of clay, that a large amount of this clay going on the beds and not having a sufficient wash, forms this compact mass. I was unable to determine just what the cause of this packing was, as my time was so limited that I would have had to dig the beds up while I was testing the plant, and as digging up both beds at the same time would affect the test to the extent that I could not determine just what the plant has been doing. I will say, however, that I do not think it has been caused by an insufficient pressure of wash-water, inasmuch as bed No. 2 is in a much better condition than No. 1. If one of the other three reasons has been the cause, the beds can be put back in shape with little difficulty. The distribution of air is very even over the bed, but an increase of the air pressure will be of great benefit in the washing. It is advisable that if a new pump is at any time installed arrangements be made for a by-pass that will take the water from the clear well to be used to wash the filters. In this way the city pressure will not be affected as much and undoubtedly a greater wash-water pressure can be obtained.

"The design and construction of the plant is very good and the workmanship as a whole is to be highly commended. With a very few changes, and by getting the filter beds back in shape with the proper operation, the

CHARACTER OF THE INDIANAPOLIS PUBLIC WATER SUPPLY.

During the past year a careful study has been made of the water furnished by the Indianapolis Water Company at the public street corners and at the State House. In some instances the bacterial count was made on agar-agar incubated for 24 hours at 38° C., but in most of the work gelatin plates were used which were incubated for 72 hours at 20° C. The fermentation test for *B. coli* was also made in a Smith tube filled with dextrose broth in the usual way. In no instance were colon bacilli present. Except in a few cases the bacterial count was under 100 per cubic centimeter. In two instances the fountain at Illinois and 16th streets showed a high bacterial count, and during the first week of the investigation the count at this point was decidedly higher than elsewhere. The results of the bacterial examination showed the water to be entirely satisfactory in character and quite suitable for drinking purposes. That this condition holds good throughout the year has also been shown by a large number of chemical analyses, which in every instance have corroborated the bacterial count.

BACTERIAL EXAMINATION OF INDIANAPOLIS WATER.

Lab. No.	Date Collected.	Source of Sample.	Bacteria Per 1 C. C.	Culture Media.
168 A	Feb. 7, 1908	State House, elevator tap.....	4	Agar.
169 A	Feb. 7, 1908	State House, laboratory tap.....	2	Agar.
170 A	Feb. 14, 1908	State House, elevator tap.....	0	Agar.
171 A	Feb. 17, 1908	State House, elevator tap.....	19	Agar.
172 A	Feb. 18, 1908	State House, elevator tap.....	14	Agar.
173 A	Feb. 19, 1908	State House, elevator tap.....	6	Agar.
174 A	Feb. 20, 1908	State House, elevator tap.....	3	Agar.
175 A	Feb. 24, 1908	State House, elevator tap.....	0	Agar.
176 A	Feb. 25, 1908	State House, elevator tap.....	4	Agar.
195 A	Feb. 28, 1908	State House, elevator tap.....	0	Agar.
203 A	Mar. 6, 1908	State House, elevator tap.....	9	Agar.
207 A	Mar. 10, 1908	State House, elevator tap.....	0	Agar.
213 A	Mar. 11, 1908	State House, elevator tap.....	15	Agar.
218 A	Mar. 12, 1908	State House, elevator tap.....	3	Agar.
222 A	Mar. 13, 1908	State House, elevator tap.....	8	Agar.
231 A	Mar. 16, 1908	State House, elevator tap.....	10	Agar.
236 A	Mar. 17, 1908	State House, elevator tap.....	150	Agar.
240 A	Mar. 18, 1908	State House, elevator tap.....	9	Agar.
244 A	Mar. 19, 1908	State House, elevator tap.....	11	Agar.
250 A	Mar. 24, 1908	State House, elevator tap.....	4	Agar.
254 A	Mar. 25, 1908	State House, elevator tap.....	4	Agar.
260 A	April 6, 1908	State House, elevator tap.....	8	Agar.
261 A	April 8, 1908	State House, elevator tap.....	8	Agar.
264 A	April 17, 1908	State House, elevator tap.....	4	Agar.
265 A	June 4, 1908	Illinois and 13th st., fountain.....	128	Gelatine.
266 A	June 4, 1908	Kentucky ave. and Washington st., fountain.....	2700	Gelatine.
267 A	June 4, 1908	Washington st. and Elder ave., fountain.....	39	Gelatine.
268 A	June 4, 1908	West and Washington sts., fountain.....	70	Gelatine.
269 A	June 4, 1908	Fountain Square, fountain.....	46	Gelatine.
270 A	June 4, 1908	Washington st. and Arsenal ave., fountain.....	27	Gelatine.
271 A	June 4, 1908	State House, laboratory tap.....	47	Gelatine.
272 A	June 4, 1908	Illinois and 13th st., fountain.....	16	Gelatine.
273 A	June 4, 1908	Illinois and 16th sts., fountain.....	65	Gelatine.
274 A	June 4, 1908	Kentucky ave. and Washington st., fountain.....	2100	Gelatine.
275 A	June 4, 1908	Washington st. and Elder ave., fountain.....	79	Gelatine.
276 A	June 4, 1908	West and Washington sts., fountain.....	16	Gelatine.
277 A	June 4, 1908	Fountain Square, fountain.....	49	Gelatine.
278 A	June 4, 1908	Washington st. and Arsenal ave., fountain.....	45	Gelatine.
279 A	June 4, 1908	Washington st. and Arsenal ave., fountain.....	15	Gelatine.

THE CHARACTER OF THE WATER SUPPLY OF MICHIGAN CITY, IND.

BY H. E. BARNARD AND J. H. BREWSTER.

For many years the typhoid fever death rate of Michigan City has been higher than it should be, and there is good reason to believe that this has been due largely to the character of the public water supply. Statistics furnished by the Board of Health and given in Table No. 28 show that the typhoid death rate for the 26 years from 1882 to 1907 inclusive has been 43 per 100,000, and while during this time it has varied in different years from 0 to 112, there is also shown a marked increase in the rate from 1903 to 1907 inclusive.

The six years from 1882 to 1887 inclusive show a death rate of 35 per 100,000. The ten years from 1888 to 1897 inclusive show a death rate of 49 per 100,000. The ten years from 1898 to 1907 inclusive have a death rate of 42 per 100,000, and the last five years from 1903 to 1907 inclusive show a death rate of 57 per 100,000. The following table shows the number of years when the typhoid fever death rate has been between certain figures:

<i>Typhoid Fever Death Rate.</i>	<i>Number of Years When this Death Rate Existed.</i>
Below 20	5
Between 20 and 30	2
Between 30 and 40	4
Between 40 and 50	6
Between 50 and 60	5
Between 70 and 80	2
Between 100 and 110	1
Between 110 and 120	1

As a general rule, a continued typhoid death rate above 20 is an indication that something is at fault with the public water supply. The rate for Michigan City has been above this figure every year with the exception of 1898 and 1901, for the last twenty years.

The fact that a decided increase in the number of cases of typhoid fever is observed during the winter, although it is in the

summer months that enteric diseases are usually most common, is a grave suspicion that it is in a measure responsible for this condition. It is shown in the statistics of the local board (see Table 27) that with one or two exceptions there has been more typhoid fever during the months of February, March and April than any other time of the year. The epidemic of 1908 started in January and continued until May. That this condition is largely due to the character of the water supply is without question.

No city can continue to prosper when its water supply is of suspicious quality, and, recognizing this fact, the health officers of Michigan City in the early summer of 1908 requested the State Board of Health to determine the real character of the supply with respect to its present sanitary condition and its probable future quality after the installation of a new intake pipe to supplement the intake now in use.

In accordance with the request of the local health board, on July 13, 1908, the State Board of Health established a temporary bacteriological laboratory at the life saving station at Michigan City, equipped for making colony counts and the presumptive test for *B. coli*. Sampling points in the Lake were located and marked by buoys covering the territory within a two-mile radius of the mouth of the harbor, which is the only source of pollution of the Lake at a point near the city. Sampling points were also established in the river as far as it was navigable up Trail Creek. Samples were taken daily, from July 15 to and including August 5, at points located at the mouth of Rummel ditch, the Fourth Street sewer, the harbor intake, the present water works intake, the new intake, and the intake to the Prison Water Supply. The direction and velocity of the wind and the direction of lake currents were noted daily. The entire investigation involved the collection and bacterial analysis of about 400 samples of water and the report of about 75 chemical analyses taken from the Lake and well supplies. All Lake supplies for bacterial analyses were collected from a water level 10 feet below the surface.

Lake Michigan as a Source of Water Supply.

Lake Michigan is the second in the chain of Great Lakes, and ranks third in size with regard to its drainage area, having 68,100 square miles. As the outlet is comparatively small, relative to the quantity of water it contains, there is no direct flow and the movements of the water are entirely dependent upon local winds, which vastly overbalance the general movement of translation and drive

the water one way or the other according to their direction, velocity and duration. The atmospheric temperature also influences these movements, and near the mouths of large streams these, too, have their effect. Michigan City is located on the southern pocket or lower bay of the Lake and is not influenced by the drainage of any rivers or large sewers with the exception of its own harbor, the sewage of which is carried in one direction or the other as the wind directs the currents.

The friction of the wind blowing over the surface of a large body of water tends to produce a surface current of the water in the same direction, and if the wind continues to blow from one direction a general surface drift of the water in that direction is established. These induced currents may be interrupted at times or even reversed, but as a whole they represent an advance movement in the direction of the prevailing wind. It is the general impression that the prevailing currents are from west to east or counter clockwise along the southern shore of the lake, and water works intakes have been placed with this idea in view as a protection of their water supply. This idea is pronounced a fallacy by W. V. Judson, Major, Corps of Engineers of the War Department, who has found no positive Lake Michigan currents, and after a careful study of the Lake concludes that they run in any direction at any time according to the direct influence of the wind and atmospheric temperature.

It has also been shown that the shore points are affected by counter currents. That is, on-shore winds bring the surface water in, and the shore water washes out, thus forming a direct opposite current. Off-shore currents have the reverse effect, bringing the deep water in and taking the surface water out. Water works intakes that are close to shore are affected by these currents, as they are within the influence of the on-shore winds which bring the most drainage over the intake.

The currents which affect the water intake at Michigan City are principally the local shore currents. The general lake currents rarely get within five miles of the shore, and are often quite the reverse of the shore currents, as the local winds are quite different from the lake winds. The currents are also affected by the government pier and breakwater.

The harbor currents at times seem to have some relation to the lake currents, but at other times they have very little and in fact are quite the opposite. The currents run both into the harbor and out of it, and occasionally there is practically no current at all.

The character of a water for drinking and domestic purposes depends very largely upon its freedom from organic pollution, especially in the form of household sewage. As to this point, the water of Lake Michigan in its normal state approaches absolute purity, and where supplied in this condition its quality is unquestionable. But as the water intakes are close to shore and in many instances also near the outlet of the public sewer, it becomes necessary to determine whether or not the sewage that enters the Lake is carried to the intake of the water supply in order to know the true character of the city water.

Location and Water Front of Michigan City.

Michigan City is the most eastern Indiana city on the southern pocket of Lake Michigan, St. Joe, Michigan, being the nearest city along the eastern shore and Gary on the west. The city is built entirely on sand, the shore being bordered by immense sand hills and dunes, among which is the noted Hoosier Slide.

The lake bottom is principally sand, although there are many outcroppings of clay covering small areas which are so situated that they are constantly scoured clean by incoming and outgoing currents. The lake bottom slopes very gradually from the shore, and two and one-half miles out the water averages 55 feet in depth. No point within this area has shown a greater depth of water than 63 feet. Because of the force of storms, which sweep down from the north, carrying the lake water before them, the surf is very heavy at certain periods of the year, and this influence has its effect on the lake bottom, as is shown by gullying and rolls in the sand bed, which, however, are shallow and of little significance.

The harbor, so called, is the dredged out channel of a small stream known as Trail Creek, and for some two miles its shores are utilized for dockage purposes. There are several manufacturing plants and lumber and coal yards along the harbor which do some shipping by water, and the channel is therefore kept open for vessels drawing not more than 15 feet of water.

At the mouth of the harbor the government has constructed piers into the Lake, one either side about one-half mile long. In front of the harbor mouth there is a breakwater parallel to the shore line which encloses the harbor. The harbor can be entered from either the east or west side of the breakwater. Inside this harbor dredging is frequently necessary, and the material which is dredged is used either to fill in dockage or is taken into the Lake and dumped into the water. At the mouth of the harbor the chan-

nel is 20 feet in depth, but the average depth is 18 feet and its width approximately 208 feet. The harbor receives all the sewage of the city through the Fourth Street sewer and Rummel ditch. At the entrance of the Fourth Street sewer the channel is 12 feet deep and 125 feet wide. At the point where the sewer enters the harbor is a shallow turning basin about 200 feet wide and averaging seven feet in depth. There is also a turning basin which marks the end of the harbor a short distance above the electric power station. Here the water is only three or four feet deep. Rummel Ditch enters Trail Creek about a mile and one-half above this point.

The bottom of the harbor is heavy clay, but because of the continual deposition of organic matter from the sewer and of silt brought down by Trail Creek, it is its entire length a mass of ooze in some places 10 feet deep.

The Water Supply of Michigan City.

The water supply of the city is derived from the Lake except at times when the intake becomes clogged with ice and harbor water is used. The old or present intake of the water works is located 3,732 feet from the shore and 3,700 feet from the mouth of the harbor. The main is 24-inch iron pipe with an opening upward "L" at the end to prevent the sucking in of sand from the lake bottom. The depth of the Lake at this point is forty feet. In order to supply a greater quantity of water and at the same time for the purpose of securing water of better quality, a new water works intake is now under construction. The line now being laid is a 30-inch steel main, which will extend 4,300 feet into the lake and have its intake about 600 feet from the present intake. This is supposed to be sufficiently large to carry all the water needed by the city for years to come. It will be placed in 50 feet of water, and in this depth of water it is expected that there will be no trouble from needle ice, but if the main should become clogged the old intake can be used while the ice is being removed, and the use of the harbor intake dispensed with entirely. The mouth of this main is to be an eight-sided, wooden rip-rapped crib, surrounded by quarry stone. The top of the crib is to be open, and if it should become clogged with ice, water will still be supplied through the sides of the crib.

The harbor intake is directly back of the water works and is a 16-inch line which is used only when the lake main becomes stopped with needle ice. When this occurs, harbor water is pumped back through the main to clean it, and during the time of cleaning the

Trail Creek also receives the drainage of the land lying east of the city, which is practically nothing but storm water. Its discharge is about 20,000 cubic feet or 150,000 gallons per minute.

Shore Wash and the Stirring Up of the Bottom.

During storms and windy weather the bottom is stirred up by wave action, and suspended matter is carried back and forth between the shore and water intake. At such times any deposits along the shore are carried out either by direct currents or by counter currents in reverse winds, and materially increase the turbidity of the water. While such material is usually innocuous, yet it occasionally renders the water so turbid as to be unsatisfactory for drinking purposes.

The Dumping of Dredged Material.

If any of the material removed from the bottom of the harbor by dredges engaged in cleaning or deepening the channel is carried out by scows and dumped into the Lake near the water intake or at such points that particles held in suspension are carried near the intake by wind and wave action, the character of the water supply is endangered and a serious pollution becomes possible. The dumping of all material removed from the harbor should not be allowed within a distance of three miles from shore.

Accidental Pollution from Boats.

All boats entering the harbor from the west go within a half mile of the water works intake, and boats coming from the east go within a short distance of it, not infrequently passing directly over it. The Roosevelt and other large boats carrying excursion parties out from Michigan City pass close to the intake as often as twice in one hour. Fishing boats and scows pass even nearer than these larger boats. These boats, some of which carry 3,000 passengers, have toilet facilities which discharge directly into the water, and when such numbers of passengers are on board they are constantly in use. While it is probable that pollution of the water supply by these boats is not greatly to be feared, yet it is entirely possible for the dejecta of a typhoid convalescent to be poured into the Lake within a short distance or even directly over the water intake.

This accidental pollution, unfortunately, is beyond the control of the city. Federal legislation and supervision is needed to protect this and other water works supplies from such possibilities of

contamination, and any measure, such as the creation of a zone around water intakes over which shipping cannot pass, that will protect the water consumer is both wise and necessary legislation.

Disturbance of Bottom by Sand Suckers.

Boats desiring certain grades of sand frequently go within a few hundred feet of the water intake and suck the bottom sand into their boats. This work disturbs the lake bottom and large quantities of suspended matter can be seen for over a mile in the lake water. All work of this kind should be kept far enough away from the intake that there may be no possibility of the disturbance reaching the city supply and damaging the quality of the water.

Factors Which Affect the Self-Purification of Lakes.

There are several factors which tend to protect the water supply of the city against the pollution which the Lake receives.

First, there is the natural dilution of the small amount of sewage by the great volume of lake water which receives it and with which it is thoroughly mixed. The velocity of the current discharging into the Lake is so slight that it immediately diffuses throughout the surrounding mass of pure water, and in a short time the original body of polluted water is so infinitely diluted as not to be detected by any change in the character of the lake water. However, as there are several offsetting influences to the process of dilution, no computed table can be used for the purpose of determining the time or distance factor necessary to destroy all danger of pollution. Principal among these influences are currents caused by the wind and piers and breakwaters which deflect a natural current in an opposite direction.

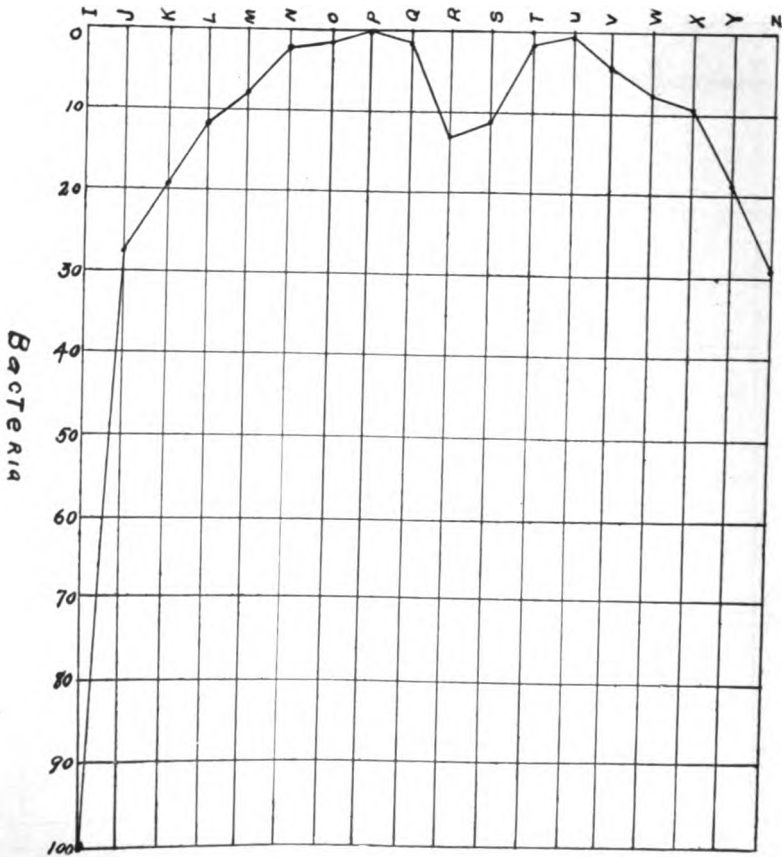
Second, the natural death of the pathogenic organisms affords a great protection to the purity of the Lake. Inasmuch as there is practically no food in the pure water for these bacteria to live on, they gradually die instead of multiplying, as they would under the same conditions of temperature in a more suitable media. Just how long these organisms will live it is impossible to say, but it is reasonable to believe that they will exist for several weeks under favorable conditions.

Third, there is the process of sedimentation. When the water is comparatively quiet there is a very rapid settling of the suspended matter, the organic constituents and bacterial life. This leaves the surface water, which is the first to be carried by the

LABORATORY OF HYGIENE
STATE BOARD OF HEALTH

Charts and Tables Accompanying
Michigan City Survey

Chart No. 2.
Michigan City, Ind.
Diagram showing Average Bacterial Count Per cc. in Lake Michigan Water.
July 15-1908 To August 6-1908.
Sampling Points.



KEY OF SAMPLING POINTS.

- A. Trail Creek. Three miles from mouth of Harbor.
- B. Trail Creek. At the last turning basin.
- C. Harbor. At Sixth Street Bridge.
- D. Harbor. Mouth of Fourth Street Sewer.
- E. Harbor. Mouth of Harbor Intake.
- F. Mouth of Harbor at small lighthouse.
- G. Mouth of Harbor at Fog Horn.
- H. East end of Breakwater.
- I. Small lighthouse outside of Harbor.
- J. 500 feet from shore off of Kentucky Street.
- K. West end of Breakwater.
- L. Half way between west end of Breakwater and the Prison Intake.
- M. Prison Intake.
- N. One mile out from Prison Intake.
- O. Two miles out from Prison Intake.
- P. Two miles out from Fog Horn.
- Q. One mile out from Fog Horn.
- R. Old Intake.
- S. New Intake.
- T. One mile out from New Intake.
- U. Two miles out from New Intake.
- V. One mile out from Hermitage.
- W. Two thousand feet out from Hermitage.
- X. Five hundred feet out from Center Street.
- Y. Half way between Fog Horn and Old Intake.
- Z. Eastern end of Breakwater out from Bathing Beach.

TABLE No. 1.—MICHIGAN CITY, IND.

NUMBER OF BACTERIA PER C.C. IN LAKE MICHIGAN WATER, JULY 15, 1908.

Sampling Point.	Laboratory Number.	Bacteria.	B. Coli.	Remarks.
E.	423 A.	2300	+	
F.	424 A.	170	+	
H.	425 A.	6	—	
K.	426 A.	90	+	Wind northeast light.
M.	427 A.	4	—	
N.	428 A.	2	—	Lake smooth.
O.	429 A.	0	—	
P.	430 A.	0	—	
Q.	431 A.	2	—	Current northeast to southwest.
R.	432 A.	2	—	
S.	433 A.	4	—	
T.	434 A.	3	—	
U.	435 A.	2	—	
V.	436 A.	10	—	
W.	437 A.	18	—	

TABLE No. 2.—MICHIGAN CITY, IND.

NUMBER OF BACTERIA PER C.C. IN LAKE MICHIGAN WATER, JULY 16, 1908.

Sampling Point.	Laboratory Number.	Bacteria.	B. Coll.	Remarks.
E.	438 A.	2200	+	Wind south, fresh.
F.	439 A.	160	+	
H.	440 A.	80	+	
K.	441 A.	15	—	Lake choppy.
M.	442 A.	3	—	
N.	443 A.	1	—	
O.	444 A.	0	—	Current southeast to northwest.
P.	445 A.	0	—	
Q.	446 A.	2	—	
R.	447 A.	6	—	
S.	448 A.	4	—	
T.	449 A.	1	—	
U.	450 A.	2	—	
V.	451 A.	0	—	
W.	452 A.	1	—	

TABLE No. 6.—MICHIGAN CITY, IND.

NUMBER OF BACTERIA PER C.C. IN LAKE MICHIGAN WATER, JULY 21, 1908.

Sampling Point.	Laboratory Number.	Bacteria.	B. Coll.	Remarks.
E.	498 A.	4500	+	Wind southwest, light.
F.	499 A.	200	+	
H.	500 A.	30	—	
K.	501 A.	42	+	
M.	502 A.	2	—	Lake smooth.
N.	503 A.	17	—	
O.	504 A.	3	—	
P.	505 A.	3	—	
Q.	506 A.	25	—	Currents south to north
R.	507 A.	15	—	
S.	508 A.	9	—	
T.	509 A.	3	—	
U.	510 A.	5	—	
V.	511 A.	3	—	
W.	512 A.	28	—	
*	513 A.	36	—	
**	514 A.	28	—	

*City tap at Stalgers' store.

**City tap at City Drug Store.

TABLE No. 7.—MICHIGAN CITY, IND.

NUMBER OF BACTERIA PER C.C. IN LAKE MICHIGAN WATER, JULY 22, 1908.

Sampling PWint.	Laboratory Number.	Bacteria.	B. Coli.	Remarks.
E.	515 A.	4000	+	Wind north, fresh
F.	516 A.	300	+	
G.	517 A.	28	—	
H.	518 A.	4	—	
I.	519 A.	7	—	
J.	520 A.	1	—	
K.	521 A.	3	—	
L.	522 A.	5	—	
M.	523 A.	3	—	Lake choppy
N.	524 A.	0	—	
Q.	525 A.	1	—	
R.	526 A.	0	—	
S.	527 A.	2	—	
T.	528 A.	0	—	
V.	529 A.	2	—	
W.	530 A.	3	—	
Y.	531 A.	2	—	Current north to south
Z.	532 A.	35	+	
*	533 A.	3	—	

*City tap at Michigan Central Depot

TABLE No. 9.—MICHIGAN CITY, IND.

NUMBER OF BACTERIA PER C. C. IN CITY WATER TAKEN FROM HYDRANTS AT THE DEAD ENDS
OF CITY MAINS, JULY 23, 1908.

Sampling Points.	Laboratory Number.	Bacteria.	B. Coli.
Willard Ave. and Fourth St.....	555 A.	40	—
Ohio and Ripley.....	556 A.	20	—
Tennessee and William.....	557 A.	4	—
Kentucky and Ripley.....	558 A.	28	—
Elston and Barker.....	559 A.	12	—
Ann and Wabash.....	560 A.	5	—
York and Barker.....	561 A.	15	—
Franklin and Earl Road.....	562 A.	12	—
Williams and Washington.....	563 A.	30	—
Pine and William.....	564 A.	18	—
Spring and Detroit.....	565 A.	22	—
York and Park.....	566 A.	6	—

TABLE No. 10.—MICHIGAN CITY, IND.

NUMBER OF BACTERIA PER C. C. IN LAKE MICHIGAN WATER, JULY 24, 1908.

Sampling Point.	Laboratory Number.	Bacteria.	B. Coli.	Remarks.
C.	567 A.	3000	+	Wind northeast, light.
D.	568 A.	50000	+	
E.	569 A.	2000	+	
F.	570 A.	250	+	
G.	571 A.	110	—	
H.	572 A.	60	—	Lake smooth.
I.	573 A.	12	—	
J.	574 A.	8	—	
K.	575 A.	35	—	
L.	576 A.	9	—	
M.	577 A.	4	—	Current northeast to southwest.
N.	578 A.	3	—	
Q.	579 A.	1	—	
R.	580 A.	13	—	
S.	581 A.	11	—	
T.	582 A.	0	—	
W.	583 A.	2	—	
X.	584 A.	3	—	
Y.	585 A.	12	—	
Z.	586 A.	20	—	

TABLE No. 13.—MICHIGAN CIT

NUMBER OF BACTERIA PER C. C. IN LAKE MICHIGAN WAT

Sampling Point.	Laboratory Number.	Bacteria.	B. Coli.	
A.	628 A.	300	+	Wind
B.	629 A.	100	+	
C.	630 A.	90000	+	
D.	631 A.	80000	+	
E.	632 A.	3800	+	
F.	633 A.	1900	+	Lake s:
G.	634 A.	1400	+	
H.	635 A.	220	+	
I.	636 A.	105	+	
J.	637 A.	20	—	
K.	638 A.	15	—	Current :
L.	639 A.	18	—	
M.	640 A.	2	—	
N.	641 A.	0	—	
Q.	642 A.	1	—	
R.	643 A.	3	—	The Harb amount
S.	644 A.	5	—	
T.	645 A.	0	—	
W.	646 A.	2	—	
X.	647 A.	0	—	
Y.	648 A.	4	—	
Z.	649 A.	6	—	

MICHIGAN CIT, INC.

LAKE MICHIGAN WATER, JULY 25, 1902

Bacteria

Bacteria, light

TABLE No. 15.—MICHIGAN CITY, IND.

NUMBER OF BACTERIA PER C.C. IN LAKE MICHIGAN WATER, JULY 29, 1906.

Sampling Point.	Laboratory Number.	Bacteria.	B. Coll.	Remarks.
A.	660 A.	20	+	Wind north, light.
B.	661 A.	150	+	
C.	662 A.	6000	+	
D.	663 A.	20000	+	
E.	664 A.	4500	+	
F.	665 A.	2600	+	
G.	666 A.	300	+	
H.	667 A.	13	—	Lake smooth.
I.	668 A.	200	+	
J.	669 A.	230	+	
K.	670 A.	260	+	
L.	671 A.	75	—	
M.	672 A.	7	—	
N.	673 A.	1	—	
Q.	674 A.	0	—	Current northeast to southwest.
R.	675 A.	6	—	
S.	676 A.	8	—	
T.	677 A.	0	—	
W.	678 A.	1	—	
X.	679 A.	0	—	
Y.	680 A.	15	—	
Z.	681 A.	23	—	

TABLE No. 18.—MICHIGAN CITY, IND.

NUMBER OF BACTERIA PER C. C. IN LAKE MICHIGAN WATER, AUGUST 1, 1906.

Sampling Point.	Laboratory Number.	Bacteria.	B. Coll.	Remarks.
A.	712 A.	200	+	Wind north, light.
B.	713 A.	230	+	
C.	714 A.	60000	+	
D.	715 A.	83000	+	
E.	716 A.	3000	+	
F.	717 A.	210	+	
G.	718 A.	26	+	
H.	719 A.	12	—	
I.	720 A.	5	—	
J.	721 A.	4	—	Lake rough.
K.	722 A.	4	—	
L.	723 A.	5	—	
M.	724 A.	21	—	
N.	725 A.	4	—	
Q.	726 A.	4	—	
R.	727 A.	4	—	
S.	728 A.	6	—	
T.	729 A.	3	—	Current north to south.
W.	730 A.	1	—	
X.	731 A.	2	—	
Y.	732 A.	13	Doubtful.	
Z.	733 A.	14	Doubtful.	

TABLE No. 22.—MICHIGAN CITY, IND.

NUMBER OF BACTERIA PER C.C. IN LAKE MICHIGAN WATER, JULY 15, 1908, TO AUGUST 6, 1908.

Sampling Point.	Depth of Water in Feet.	Bacteria.			B. Coli Present During Test, Per Cent. of Days.
		Maximum.	Minimum.	Average.	
A.	6	600	20	198	63
B.	3	600	100	260	100
C.	12	90000	3000	38000	100
D.	7	90000	4000	52500	100
E.	18	66000	2000	11500	100
F.	20	4000	160	1000	90
G.	24	1400	26	300	54
H.	29	220	4	40	22
I.	12	600	5	100	31
J.	15	230	1	27	8
K.	26	260	5	41	22
L.	30	75	0	13	0
M.	30	28	0	7	0
N.	55	17	0	3	0
O.	55½	4	0	2	0
P.	60	3	0	0	0
Q.	58½	7	0	1	0
R.	40	93	0	16	0
S.	50	52	4	13	0
T.	60	13	0	3	0
U.	63½	5	0	2	0
V.	48	10	0	4	0
W.	53	25	1	6	0
X.	7	40	0	9	0
Y.	29	85	2	19	8
Z.	7	135	7	29	25

TABLE No. 23.—MICHIGAN CITY, IND.

ANALYSIS OF LAKE MICHIGAN WATER TAKEN FROM PRISON INTAKE FOR STATE PRISON SUPPLY.
In Parts per Million.

Date Taken.	Laboratory Number.	Turbidity.	Sediment.	Color.	Odor.	RESIDUE ON EVAPORATION.			NITROGEN AS				Chlorine.	Alkalinity.	Iron.	B. Coll.
						Total.	Fixed.	Loss on Ignition.	Free Ammonia.	Albuminoid Ammonia.	Nitrates.	Nitrites.				
1907.																
March 6	921	V. sl.	V. sl.	0.	None	162.	124.	38.	.014	.100	.300	.005	5.	122.	Trace	—
March 8	925	V. sl.	V. sl.	0.	None	144.	126.	18.	.010	.050	.200	.006	4.	118.	Trace	—
March 11	926	None.	V. sl.	0.	None	160.	100.	60.	.010	.024	.000	.000	6.	92.	0	—
1908.																
February 20	1558	V. much.	V. sl.	50.	None	230.	146.	84.	.022	.064	.000	.002	5.	126.	1.4	—
February 24	1560	V. much.	V. sl.	50.	None	174.	124.	50.	.015	.070	.400	.000	4.	122.	.6	—
February 26	1564	V. much.	None.	30.	None	186.	136.	50.	.035	.065	.200	.001	4.	122.	1.4	+
April 21	1673	Much.	None.	20.	None	138.	118.	20.	.045	.065	.150	.001	4.	118.	.3	—
April 23	1700	Much.	None.	30.	None	132.	125.	7.	.050	.065	.050	.004	4.	122.	.3	—
May 25	1756	V. sl.	None.	9.	None	162.	122.	40.	.050	.160	.050	.002	4.	120.	.2	—

TABLE No. 24.—MICHIGAN CITY, IND.

ANALYSIS OF LAKE MICHIGAN WATER USED FOR CITY SUPPLY.

In Parts per Million.

Date Taken.	Lab- ora- tory Num- ber.	Source of Sample.	Tur- bidity.	Sedi- ment.	Color.	Odor.	RESIDUE ON EVAPORATION.			NITROGEN AS				Chlo- rine.	Alka- linity.	Iron.	B. Coli.
							Total.	Fixed.	Loss on Ignition.	Free Am- monia.	Albumi- noid Am- monia.	Ni- trates.	Ni- trites.				
1906.																	
January 31.....	201	City tap.....	Sl.....	None...	0.	None...	170.	133.	37.	.080	.060	.060	.003	6.	54.	0.	—
1907.																	
February 6.....	897	City tap.....	None...	None...	0.	None...	150.	110.	40.	.014	.010	.100	.003	8.	106.	0.	—
March 25.....	910	City tap.....	None...	None...	0.	V. al....	232.	170.	62.	.120	.030	.100	.003	4.	122.	0.	—
1908.																	
January 17.....	1512	City tap.....	Sl.....	Sl.....	30.	None...	398.	294.	104.	.280	.056	.060	.004	16.	180.	4.	+
July 21.....	1946	New intake.....	None...	None...	40.	None...	152.	122.	30.	.036	.042	.000	.002	4.	118.	0.	—
July 21.....	1947	Mouth of harbor.....	None...	None...	50.	None...	138.	123.	16.	.016	.060	.000	.002	4.	117.	4.	+
July 21.....	1948	Harbor back of water works.....	None...	Sl.....	60.	Sl earth	260.	180.	80.	.280	.028	.000	.060	15.	154.	2.	+
July 21.....	1950	East end of breakwater.....	None...	None...	40.	None...	152.	124.	28.	.012	.046	.000	.002	4.	118.	0.	—
July 21.....	1951	One mile from harbor.....	None...	None...	4.	None...	128.	120.	8.	.006	.064	.000	.002	4.	118.	0.	—

TABLE No. 25.—MICHIGAN CITY, IND.

ANALYSIS OF WELL WATER USED FOR DRINKING AND DOMESTIC PURPOSES.]
In Parts per Million.

Date Taken.	Laboratory Number.	Turbidity.	Sediment.	Color.	Odor.	RESIDUE ON EVAPORATION.			NITROGEN AS				Chlorine.	Alkalinity.	Iron.	B. Coli.	
						Total.	Fixed.	Loss on Ignition.	Free Ammonia.	Albuminoid Ammonia.	Nitrates.	Nitrites.					
1906.																	
August 6.....	501	Sl.....	Much Iron	60	Sl foul.	599.	394.	205.	.060	.116	.000	.000	.000	34.	163.	.80	—
August 25.....	522	V. S.....	Sl.....	0	Sl foul.	363.	300.	63.	.230	.094	.100	.000	.000	25.	290.	.10	—
1907.																	
February 6.....	898	None.....	None.....	0	None.....	174.	90.	84.	.054	.014	.200	.003	.003	23.	67.	.10	—
February 6.....	899	Sl.....	None.....	0	None.....	700.	600.	100.	.210	.020	.100	.000	.000	66.	330.	2.40	—
March 25.....	938	V. Sl.....	V. Sl.....	0	None.....	460.	268.	192.	.004	.024	16.000	.020	.020	4.	246.	.00	—
September 16.....	1293	None.....	Sl.....	19	None.....	436.	318.	118.	.032	.084	4.000	.001	.001	30.	104.	.16	—
November 11.....	1396	None.....	None.....	55	None.....	174.	148.	26.	.300	.114	.000	.000	.000	3.5	105.	.14	—
December 12.....	1468	None.....	None.....	9	None.....	162.	128.	34.	.074	.076	.000	.000	.000	7.	118.	1.00	—
1908.																	
January 23.....	1515	None.....	None.....	2	None.....	614.	426.	188.	.025	.080	10.000	.400	.400	60.	264.	.00	+
February 25.....	1562	None.....	None.....	4	None.....	126.	46.	80.	.010	.045	4.000	.010	.010	6.	28.	.50	—
April 21.....	1674	None.....	None.....	9	Sl.....	99.	96.	3.	.035	.060	.100	.001	.001	3.	95.	.30	—
June 1.....	1780	V. much..	Sl.....	40	None.....	334.	298.	36.	.180	.095	.000	.001	.001	8.	296.	1.20	—
June 24.....	1859	V. much..	V. much..	20	None.....	554.	386.	168.	.085	.190	8.000	.040	.040	17.	46.	2.20	—

July 7.....	1886	None.....	Sl.....	31	None.....	184.	128.	56.	.140	.050	.100	.001	7.	126.	1.00	+
July 20.....	1935	None.....	None.....	33	None.....	476.	352.	124.	.036	.130	4.000	.080	35.	146.	.01	+
July 21.....	1944	None.....	Sl.....	4	None.....	286.	204.	82.	.032	.022	.000	.002	30.	130.	.60	-
August 3.....	2000	None.....	Sl.....	10	V. Sl.....	466.	330.	136.	.064	.074	1.500	.020	43.	78.	.10	+
August 3.....	2001	None.....	None.....	9	None.....	636.	430.	206.	.540	.080	.600	.200	38.	167.	.20	-
August 3.....	2003	None.....	V. Sl.....	12	None.....	270.	130.	140.	.012	.044	2.500	.003	7.	18.	.00	-
August 3.....	2004	V. Sl.....	Sl.....	9	None.....	444.	280.	160.	.012	.012	1.500	.080	14.	170.	.00	-
August 3.....	2006	None.....	None.....	20	None.....	440.	380.	80.	3.600	.210	.000	.010	38.	228.	.60	-
August 3.....	2007	None.....	V. Sl.....	5	None.....	150.	80.	70.	.016	.014	.600	.020	2.	59.	.00	-
August 3.....	2008	None.....	V. Sl.....	12	None.....	846.	716.	130.	.016	.100	.100	.120	11.	254.	.00	-
August 3.....	2009	None.....	None.....	5	None.....	136.	86.	50.	.014	.034	.600	.000	1.	35.	.00	-
August 3.....	2010	None.....	V. Sl.....	0	None.....	742.	454.	288.	.024	.120	.700	.005	48.	182.	.00	-
August 3.....	2011	Sl.....	Much.....	5	None.....	440.	340.	100.	.104	.130	.000	.000	11.	210.	2.00	-
August 3.....	2012	None.....	V. Sl.....	5	V. Sl.....	650.	320.	330.	.164	.070	.070	.010	18.	160.	.00	-
August 3.....	2014	None.....	V. Sl.....	9	None.....	406.	256.	150.	.010	.070	1.000	.000	26.	113.	.00	-

[28—22268]

TABLE No. 26.—MICHIGAN CITY, IND.

ANALYSIS OF WELL WATER USED IN THE PUBLIC SCHOOLS.

In Parts per Million.

Date Taken.	Laboratory Number.	Turbidity.	Sediment.	Color.	Odor.	RESIDUE ON EVAPORATION.			NITROGEN AS				Chlorine.	Alkalinity.	Iron.	B. Coli.
						Total.	Fixed.	Loss on Ignition.	Free Ammonia.	Albuminoid Ammonia.	Nitrates.	Nitrites.				
1906.																
January 20	186	Sl.	None.	5.	None.	371.	278.	93.	.270	.150	.000	.005	22.	118.	.6	—
January 20	187	Sl.	None.	5.	None.	321.	266.	55.	.048	.090	.000	Trace..	3.	58.	1.2	—
January 20	188	Sl.	None.	0.	None.	494.	410.	84.	.078	.264	5.00	.020	59.	86.	.2	+
January 20	189	None	None.	0.	None.	333.	288.	45.	.536	.114	12.0	.040	12.	76.	.2	—
January 20	190	Sl.	Much.	0.	None.	342.	278.	64.	1.920	.234	.000	.000	20.	70.	48.0	—
January 20	191	None	None.	0.	None.	185.	146.	39.	.026	.114	3.00	.010	4.	20.	.1	—
January 31	199	V. much.	Much.	0.	None.	775.	666.	109.	.264	.144	.000	.020	52.	205.	5.0	—
January 31	200	None	None.	0.	None.	86.	53.	33.	.110	.138	.600	.025	1.	6.	.1	—
February 9	207	Sl.	Much.	0.	None.	538.	450.	88.	.620	.134	.050	.000	32.	82.	1.0	—
February 14	213	Sl.	None.	5.	None.	350.	254.	96.	.210	.030	.000	.006	35.	66.	1.6	—
February 24	219	Much.	Much.	5.	None.	482.	410.	72.	.616	.084	.400	.015	12.	188.	4.0	—
February 28	223	Sl.	None.	0.	None.	832.	796.	36.	.474	.064	.000	.000	280.	142.	Trace..	—

In accordance with the request of the local health boards, on August 13, 1908, the State Board of Health established a temporary bacteriological laboratory, equipped for making colony counts and the presumptive test for *B. coli*, at the pumping station of the East Chicago Water Works Company, at Indiana Harbor. Forty-seven sampling points, covering a territory of five miles off shore from Indiana Harbor to the Chicago two-mile crib off Brighton Beach, were located and marked by buoys. Samples were taken daily at these points from August 19th to and including September 26th.

The sampling points were located so as to establish a line of limitation of sewage distribution straight into the Lake from each water intake, at every sewer outlet and on a diagonal in each direction from the mouth of each sewer. From a careful study of the bacterial content of the water at these points on different days with varying winds, it was possible to determine the quality of the sewage entering the Lake and how far it was carried in any direction, and also to gain a substantial idea of the prevailing currents and counter currents. Chart No. 2 shows each sampling point with the number used to indicate it. Samples were taken from each intake and at each mile point in a line N. 23° E. for five miles into the Lake; at the mouth of the Indiana Harbor sewer and one mile from it N. 23° E.; at the mouth of the harbor of the Inland Steel Company's plant and one mile from it N. 23° E.; at the Standard Oil Company's sewer, one mile from it N. 67° E., and one mile N. 23° W. at the mouth of two sewers, one a 36-inch sewer from Whiting and the other a 36-inch sewer from Robertsdale; at a point one mile N. 67° E. from these sewers; at the mouth of the Glucose sewer, one mile N. 23° E. and one mile N. 23° W. from the Glucose sewer; at the mouth of the Calumet River and at points one-half mile, one mile, and two miles S. 23° E. from the lighthouse at the mouth of the river; in the harbor half way between the lighthouse and the government foghorn; at the government foghorn and every mile for five miles in a line N. 45° E. This last point, which is No. 41, is practically seven miles N. 23° E. from the Hammond intake. Points were located at one-half and one and one-half miles north from the foghorn and at the government gas buoy; at the Brighton Beach bathhouse, the temporary crib for the construction of the new water works tunnel and at the 68th Street crib.

The direction and velocity of the wind and the direction of lake currents and counter currents were noted daily. The investi-

tion of the shore and shipping pier for the oil boats, through a 6-foot sewer which is 2,000 feet from the intake of the water supply of the city.

At Robertsdale the Glucose plant disposes of its sewage through a private sewer to the mouth of Wolf Lake.

The city of Hammond discharges its sewage into the Calumet River. The system is arranged in districts with each district having an outlet into the river. The city lies so low that the sewers are below the level of the river, and it is therefore necessary to deliver the sewage to pump wells, from which it is lifted into the river. This system is satisfactory when the pump is in operation, but much inconvenience is caused when the pump is not running by reason of sewage backing up and overflowing into basements and cellars.

Local Sources of Pollution.

The chief local sources of the pollution of the water of Lake Michigan in the vicinity of Lake County are:

1. The discharge of the Calumet River and harbor water at Indiana Harbor into the Lake.
2. The discharge of local sewers into the Lake.
3. The shore wash and the stirring up of the bottom of the Lake by winds and currents.
4. The dumping of dredged material.
5. Accidental pollution by steamboats, sailing vessels and other shipping.

The Calumet River is in reality an open trunk sewer running through the cities of East Chicago and Hammond. In some places, notably at the distillery at Hammond, the volume of obnoxious decomposing organic matter is very great and becomes a public nuisance. The fact that this stream of sewage flows directly through the city of Hammond renders life along its banks unpleasant and even dangerous, as an excellent opportunity is afforded for flies to carry disease to the tables of private families and restaurants that are near its banks. The river is also a breeding ground for mosquitoes. The amount of sewage that enters the Calumet River is not known at the present time, and can be determined only with great difficulty. For this reason it is impossible to estimate the amount of sewage that is being emptied into the Lake by the river. That the quantity is at times very large is plainly shown by the immense streams of turbid water that are carried miles into the Lake.

and the use of deep well water, undoubtedly to be found in sufficient abundance for present needs.

(6) The opening of a channel to the Illinois River to convey all sewage away from the Lake.

The first proposal is obviously not to be considered because of the cost of constructing and maintaining purification plants for a series of independent cities and the greatly increased population that will soon occupy the entire lake front. It is furthermore not practical to pollute a naturally pure water and then by artificial methods to remove the contaminating material.

The second proposal is equally unsatisfactory. While it is possible to purify sewage to such an extent that it is not disease-producing, it is not possible so to treat manufacturing wastes that they will not increase the mineral constituents of the water. Moreover, while it is better to drink filtered than raw sewage, both practices are repellent and to be avoided if possible.

The third proposal is entirely feasible, and should at once be carried out. This is also true of the fourth suggestion.

The fifth suggestion, that the Lake be abandoned and a water supply sought elsewhere, is not tenable. No necessity should be so great as to require the abandonment of one of the largest bodies of potable water in the world and in its place the installation of a deep-well system of doubtful adequacy.

The last proposal is the most feasible and undoubtedly the most practicable. If the necessary Federal and State permission can be secured to allow the carriage of sewage across the line into an adjoining State, it is probable that the engineering problems can be solved. Some such action is the more necessary because the city of South Chicago and the Illinois population now sewerage into the Calumet must act with the Indiana cities if the pollution of the Lake is to be stopped.

Whatever action is taken, either to dispose of sewage or to obtain a pure water supply, must be undertaken jointly by all the cities interested. To this end, legislation authorizing the establishment of a sanitary district is advisable, and is suggested as the first step toward the betterment of civic sanitary conditions of Lake County.

Respectfully submitted,

H. E. BARNARD,

Chemist to the State Board of Health.

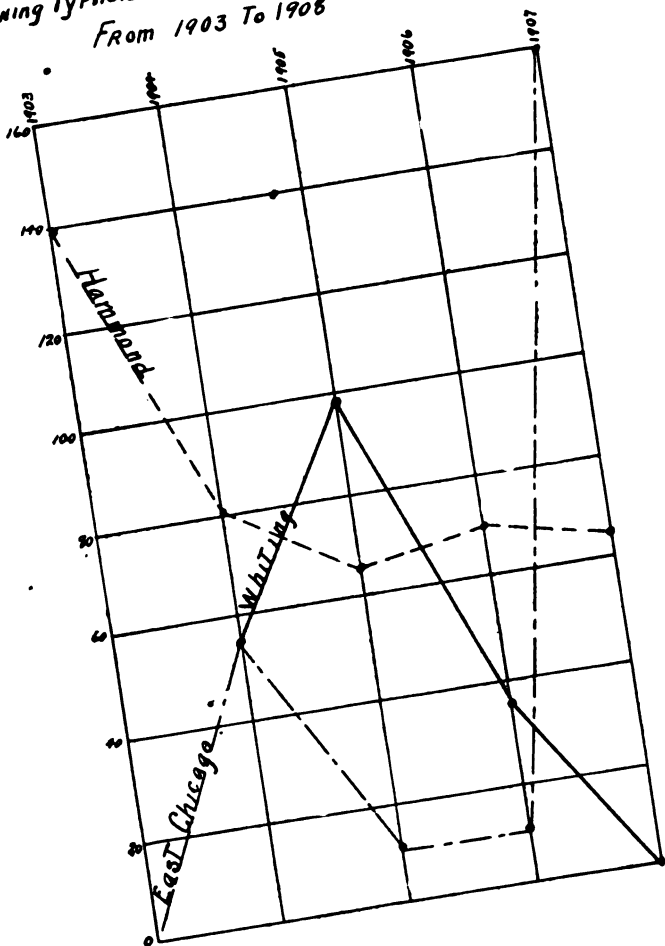
J. H. BREWSTER,

Water Chemist.

LABORATORY OF HYGIENE
STATE BOARD OF HEALTH

Charts and Tables Acompaining
Lake County Survey

CHART No. 1
 Diagram Showing Typhoid Death Rates per 100,000 in Lake County Ind.
 From 1903 To 1908



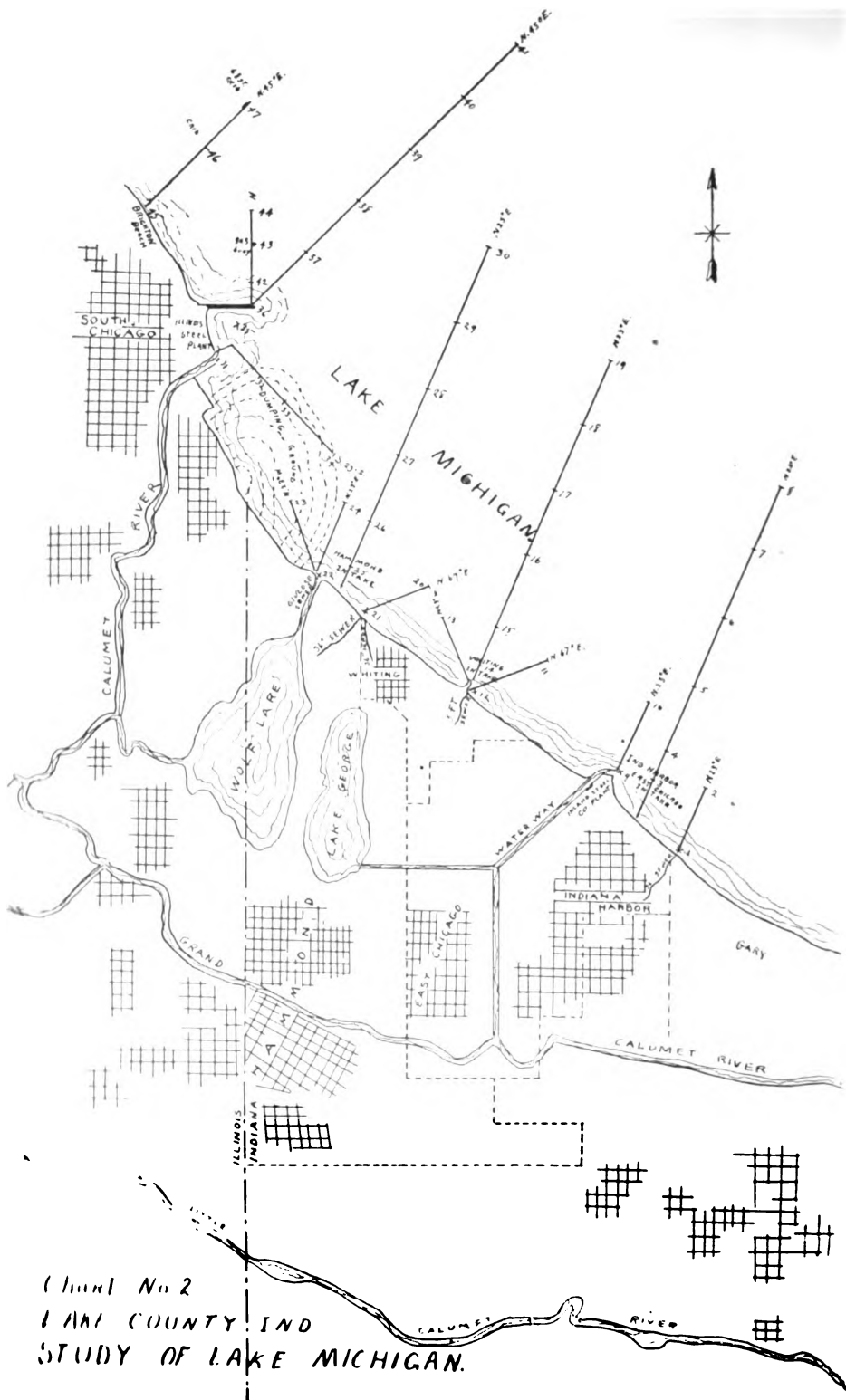




Chart No. 7.
Lake County Ind.
Distribution of Sewage by Westerly Currents.

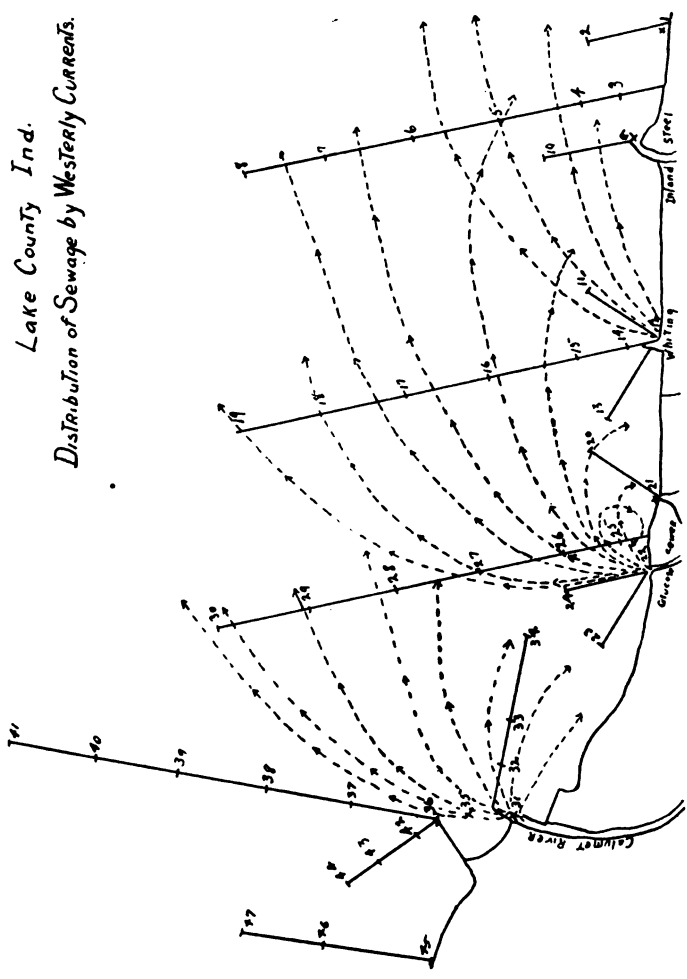


CHART No. 8.
 Lake County Ind.
 Distribution of Sewage by Easterly Currents.

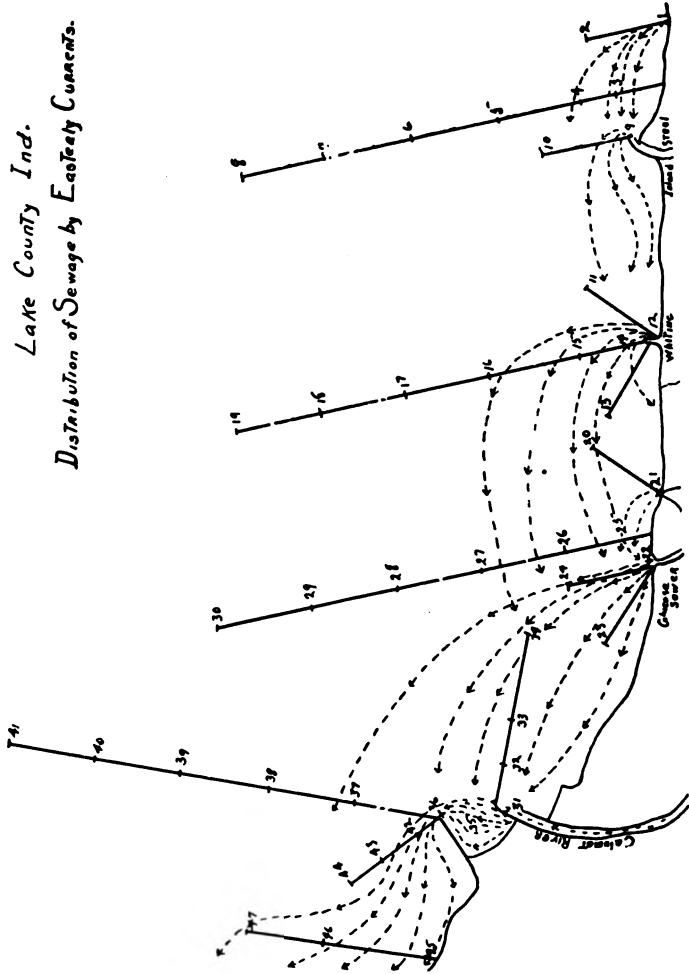
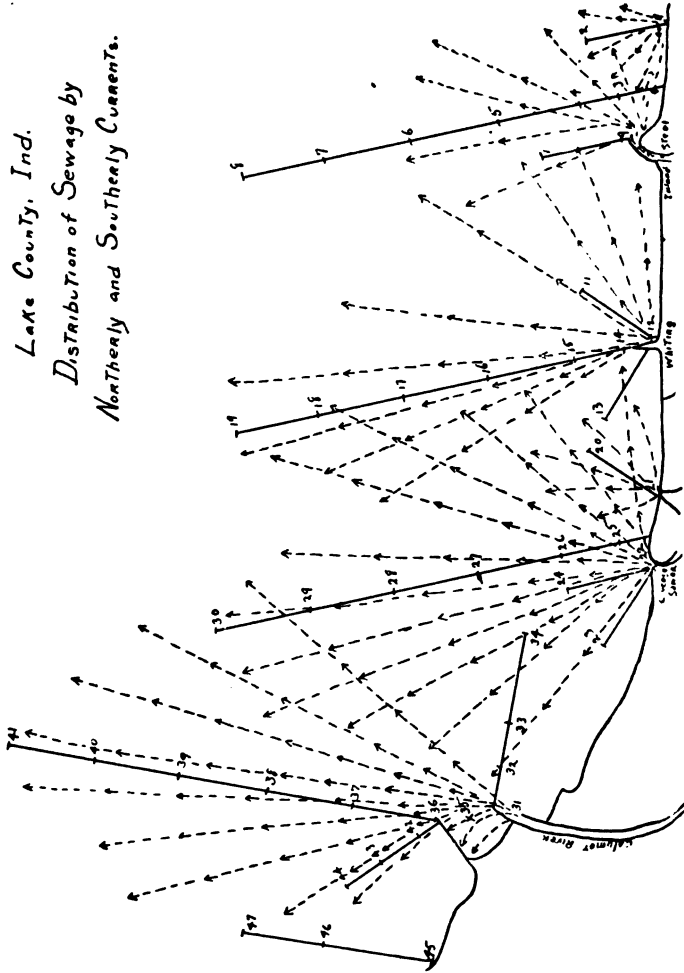
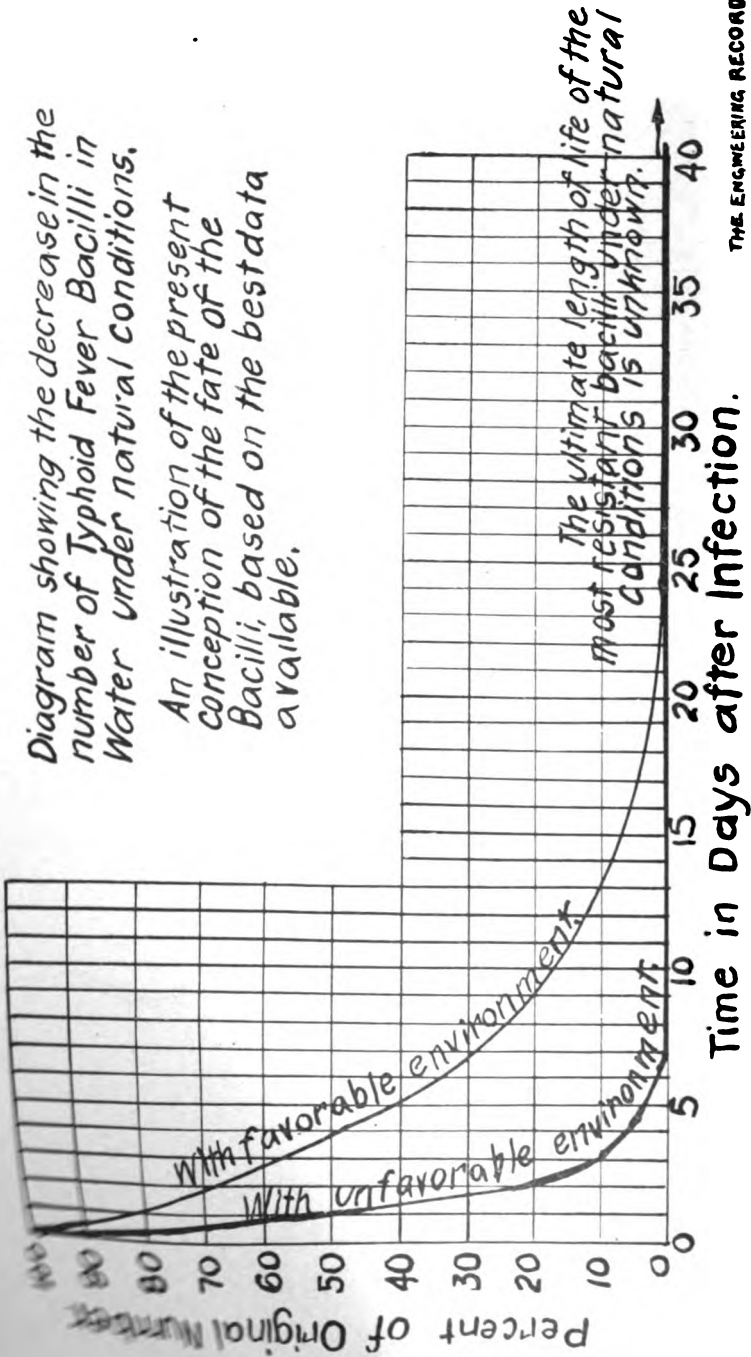


Chart No. 9.
 Lake County, Ind.
 Distribution of Sewage by
 Northerly and Southerly Currents.





The Longevity of Typhoid Bacilli.

Chan? No. 10.

Lake County, Ind.

Diagram Showing Maximum, Minimum and Average Bacterial Counts in Lake Michigan Water
From Aug. 19, 1909 To Sept. 27, 1909.

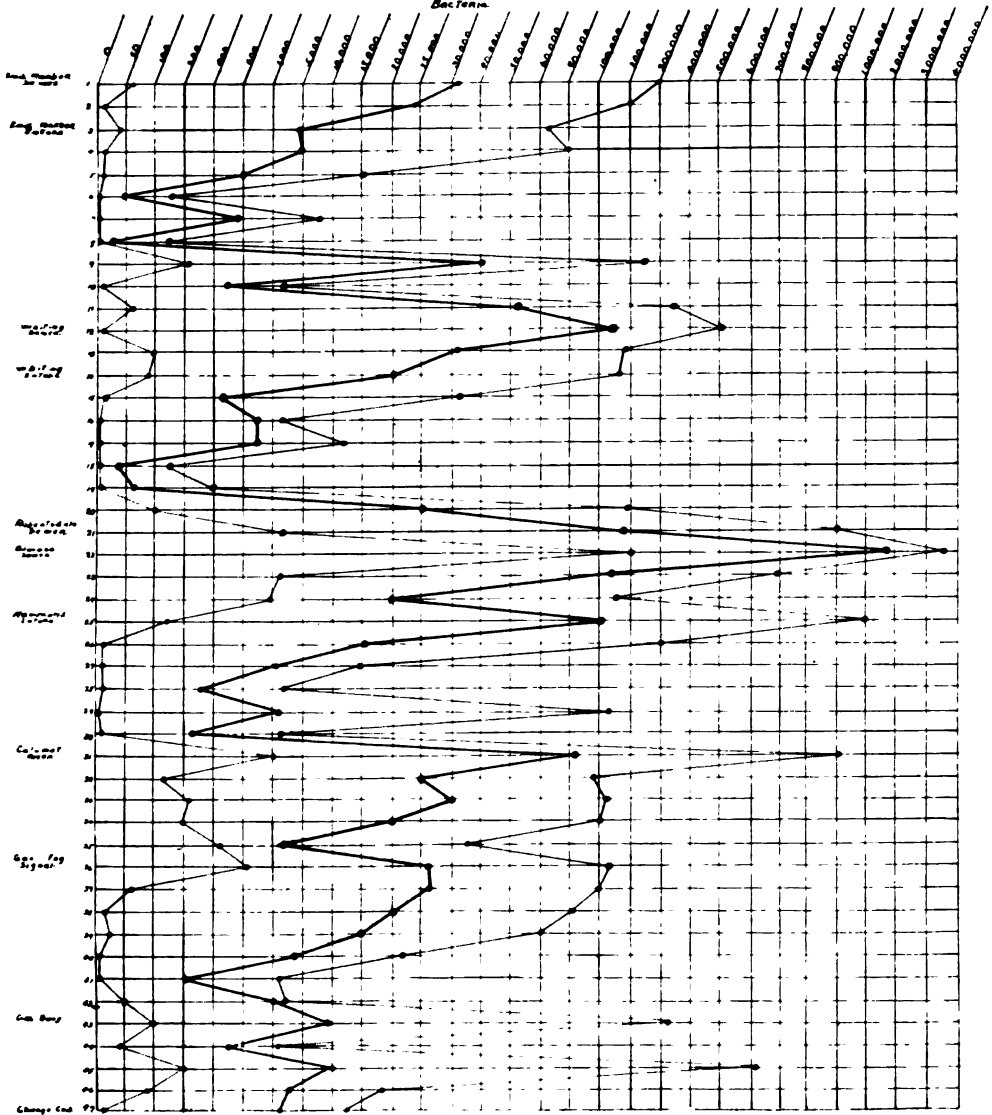


TABLE No. 1.—LAKE COUNTY, IND.

NUMBER OF BACTERIA PER C. C. IN LAKE MICHIGAN WATER, AUGUST 19, 1908.

Sampling Point.	Laboratory Number.	Bacteria.	B. Coll.	Remarks.
3.	800 A.	500	+	Wind north, high.
4.	801 A.	85	—	
5.	802 A.	80	—	
6.	803 A.	46	+	Lake very rough.
14.	804 A.	4000	+	
15.	805 A.	100	—	
16.	806 A.	150	+	Current northwest to southeast
17.	807 A.	35	—	
25.	808 A.	2500	+	
26.	809 A.	55	+	
27.	810 A.	40	—	
28.	811 A.	35	—	
31.	812 A.	3600	+	
35.	813 A.	2500	+	
42.	814 A.	1000	—	
44.	815 A.	1200	+	
*	816 A.	5000	+	

*Calumet River at Life Saving Station.

TABLE No. 3.—LAKE COUNTY, IND.

NUMBER OF BACTERIA PER C. C. IN LAKE MICHIGAN WATER, AUGUST 21, 1908.

Sampling Point.	Laboratory Number.	Bacteria.	B. Coli.	Remarks.
3.	833 A.	400	+	Wind south, light.
4.	834 A.	70	—	
5.	835 A.	60	—	
6.	836 A.	40	—	
14.	837 A.	500	+	Lake smooth.
15.	838 A.	100	+	
16.	839 A.	30	—	
17.	840 A.	20	—	
18.	841 A.	17	—	Current south to north.
25.	842 A.	1800	+	
26.	843 A.	450	+	
27.	844 A.	65	—	
28.	845 A.	15	—	
31.	846 A.	6000	+	
35.	847 A.	3000	+	
42.	848 A.	2000	+	
44.	849 A.	40	—	

TABLE No. 7.—LAKE COUNTY, IND.

NUMBER OF BACTERIA PER C.C. IN LAKE MICHIGAN WATER, AUGUST 26, 1906.

Sampling Point.	Laboratory Number.	Bacteria.	B. Coli.	Remarks.
3.	898 A.	80	+	Wind northeast, high.
4.	899 A.	75	—	
5.	900 A.	80	—	
6	901 A.	95	—	
14.	902 A.	110	+	
15.	903 A.	45	—	
16.	904 A.	11	—	Lake very rough.
17.	905 A.	300	—	
25.	906 A.	500	+	
26.	907 A.	275	—	
27.	908 A.	125	—	
28.	909 A.	20	—	
31	910 A.	4000	+	
35	911 A.	430	—	
42.	912 A.	450	+	
44.	913 A.	60	—	
*	914 A.	1500	+	

* $\frac{3}{4}$ miles from Whiting.

TABLE No. 9.—LAKE COUNTY, IND.

NUMBER OF BACTERIA PER C.C. IN LAKE MICHIGAN WATER, AUGUST 28, 1908.

Sampling Point.	Laboratory Number.	Bacteria.	B. Coll.	Remarks.
1.	933 A.	60	—	Wind south, high.
2.	934 A.	45	—	
9.	935 A.	6,000	+	Lake smooth.
10.	936 A.	40	—	
11.	937 A.	250	+	
12.	938 A.	96,000	+	
13.	939 A.	100	—	Current east to west.
14.	940 A.	80	—	
20.	941 A.	170	+	
21.	942 A.	50,000	+	The Calumet River turned around the Government Pier, going northwest along the shore.
22.	943 A.	2,000,000	+	
25.	944 A.	14,000	+	This belt did not carry outside of the gas buoy, which is point No. 43.
31.	945 A.	23,000	+	
36.	946 A.	7,000	+	
38.	947 A.	20	—	
39.	948 A.	35	—	
41.	949 A.	10	—	
*	950 A.	400	+	

*100 yards in front of Whiting Sewer.

TABLE No. 11.—LAKE COUNTY, IND.

NUMBER OF BACTERIA PER C. C. IN LAKE MICHIGAN WATER, AUGUST 31, 1908.

Sampling Point.	Laboratory Number.	Bacteria.	B. Coll.	Remarks.
25.	978 A.	950	+	Wind southeast, light.
26.	979 A.	330	+	
27.	980 A.	150	—	
28.	981 A.	30	—	Lake smooth.
29.	982 A.	15	—	
30.	983 A.	20	—	
31.	984 A.	65,000	+	Current southeast to northwest.
32.	985 A.	33,000	+	
36.	986 A.	1,000	+	
37.	987 A.	250	—	
38.	988 A.	200	—	The Calumet River formed distinct current around Government pier covering point No. 43 and could be seen in a northwest course for some distance.
39.	989 A.	400	—	
40.	990 A.	95	—	
41.	991 A.	20	—	
43.	992 A.	33,000	+	
45.	993 A.	20,000	+	
46.	994 A.	8,000	+	
47.	995 A.	1,200	—	

TABLE No. 17.—LAKE COUNTY, IND.

NUMBER OF BACTERIA PER C.C. IN LAKE MICHIGAN WATER, SEPTEMBER 10, 1908.

Sampling Point.	Laboratory Number.	Bacteria.	B. Coli.	Remarks.
25.	1122 A.	950,000	+	Wind southwest, light.
26.	1123 A.	72,000	+	
27.	1124 A.	1,000	—	
28.	1125 A.	25	—	
29.	1126 A.	75	—	
30.	1127 A.	Liquefied.	—	
31.	1128 A.	75,000	+	Lake smooth.
32.	1129 A.	12,000	+	
33.	1130 A.	20,000	+	
36.	1131 A.	50,000	+	
37.	1132 A.	60	—	
38.	1133 A.	75,000	+	
39.	1134 A.	60,000	—	Current southwest to northeast.
40.	1135 A.	90	—	
41.	1136 A.	30	—	
43.	1137 A.	250	+	
45.	1138 A.	2,400	+	
46.	1139 A.	330	—	
47.	1140 A.	23	—	

TABLE No. 18.—LAKE COUNTY, IND.

NUMBER OF BACTERIA PER C.C. IN LAKE MICHIGAN WATER, SEPTEMBER 11, 1906.

Sampling Point.	Laboratory Number.	Bacteria.	B. Coll.	Remarks.
1.	1141 A.	300,000	+	Wind south, light.
2.	1142 A.	200,000	+	
3.	1143 A.	42,000	—	
4.	1144 A.	3,000	—	
5.	1145 A.	9,000	+	
6.	1146 A.	35	—	
7.	1147 A.	35	—	
9.	1148 A.	60,000	—	Lake very smooth.
10.	1149 A.	2,000	—	
11.	1150 A.	350,000	+	
12.	1151 A.	200,000	+	
13.	1152 A.	180,000	+	
14.	1153 A.	175,000	—	
15.	1154 A.	1,000	—	
16.	1155 A.	1,400	—	Current southwest to northeast.
17.	1156 A.	100	—	
18.	1157 A.	30	—	
19.	1158 A.	400	—	
20.	1159 A.	190,000	—	
21.	1160 A.	180,000	+	
22.	1161 A.	400,000	+	
23.	1162 A.	14,000	+	
24.	1163 A.	13,000	+	
25.	1164 A.	72,000	+	
26.	1165 A.	26,000	—	
27.	1166 A.	10,000	—	
28.	1167 A.	2,500	—	
29.	1168 A.	1,400	—	
30.	1169 A.	2,300	—	
31.	1170 A.	107,000	+	
32.	1171 A.	90,000	—	
33.	1172 A.	53,000	+	
34.	1173 A.	2,500	+	
36.	1174 A.	46,000	—	

TABLE No. 20.—LAKE COUNTY, IND.

NUMBER OF BACTERIA PER C.C. IN LAKE MICHIGAN WATER, SEPTEMBER 15, 1908.

Sampling Point.	Laboratory Number.	Bacteria.	B. Coli.	Remarks.
23.	1199 A.	8,000	+	Wind northeast.
28.	1200 A.	260	—	
31.	1201 A.	75,000	+	
32.	1202 A.	5,500	+	Lake very rough.
33.	1203 A.	71,000	+	
34.	1204 A.	1,500	—	
36.	1205 A.	2,000	+	
37.	1206 A.	1,250	—	Current northeast to southwest.
43.	1207 A.	1,200	+	
45.	1208 A.	3,000	+	
46.	1209 A.	250	—	
47.	1210 A.	400	—	

TABLE No. 23.—LAKE COUNTY, IND.

NUMBER OF BACTERIA PER C. C. IN LAKE MICHIGAN WATER, SEPTEMBER 18, 1908.

Sampling Point.	Laboratory Number.	Bacteria	B. Coli.	Remarks.
1.	1251 A.	4,800	+	Wind northeast, light.
3.	1252 A.	1,000	—	
11.	1253 A.	70,000	+	
12.	1254 A.	7,200	+	
14.	1255 A.	60,000	+	Lake smooth.
22	1256 A.	900,000	+	
23	1257 A.	2,800	+	
25.	1258 A.	60,000	+	
31.	1259 A.	200,000	+	Current northeast to southwest.
32.	1260 A.	2,500	+	
33	1261 A.	18,000	+	
36.	1262 A.	1,000	+	
43.	1263 A.	100	—	
45.	1264 A.	500	—	
46	1265 A.	2,400	+	
47.	1266 A.	1,700	+	

TABLE No. 25.—LAKE COUNTY, IND.

NUMBER OF BACTERIA PER C. C. IN LAKE MICHIGAN WATER, SEPTEMBER 22, 1906

Sampling Point.	Laboratory Number.	Bacteria.	B. Coli.	Remarks.
1.	1286 A.	3,000	+	Wind south, fresh.
2.	1287 A.	1,100	—	
3.	1288 A.	50	—	
4.	1289 A.	40	—	Lake slightly rough
5.	1290 A.	15	—	
6.	1291 A.	8	—	
7.	1292 A.	6	—	
8.	1293 A.	20	—	Slight rain in the afternoon
9.	1294 A.	1,500	+	
10.	1295 A.	10	—	
11.	1296 A.	2,000	—	
12.	1297 A.	10	—	
13.	1298 A.	1,500	+	
14.	1299 A.	4,800	+	Lake current north to south. There was a counter current along the shore from east to west.
15.	1300 A.	120	—	
20.	1301 A.	900	—	
21.	1302 A.	5,000	+	The oil from Whiting could be seen nearly to the Calumet River.
22.	1303 A.	2,500,000	+	
23.	1304 A.	297,000	+	
24.	1305 A.	5,500	+	
25.	1306 A.	400	+	
26.	1307. A	2,640	+	The glucose sewer had a direct current to the west. The Calumet River taking the same general direction.
31.	1308 A.	200,000	+	
32.	1309 A.	140	—	
33.	1310 A.	1,100	+	
34.	1311 A.	10,000	+	
36.	1312 A.	6,000	+	
37.	1313 A.	24,000	+	
43.	1314 A.	3,000	+	
45.	1315 A.	200	—	
46.	1316 A.	3,500	+	
47.	1317 A.	500	+	

TABLE No. 26.—LAKE COUNTY, IND.

NUMBER OF BACTERIA PER C. C. IN LAKE MICHIGAN WATER, SEPTEMBER 24, 1906.

Sampling Point.	Laboratory Number.	Bacteria.	B. Coli.	Remarks.
1.	1318 A.	12,000	+	Wind southeast, high.
2.	1319 A.	9,900	+	
3.	1320 A.	150	—	
4.	1321 A.	100	—	
5.	1322 A.	10	—	Lake smooth.
6.	1223 A.	6	—	
7.	1224 A.	4	—	
8.	1325 A.	2	—	
9.	1326 A.	300	—	Current southeast to northwest.
10.	1227 A.	60	—	
11.	1328 A.	500	—	
12.	1329 A.	475,000	+	
13.	1330 A.	4,000	+	
14.	1331 A.	2,000	+	The oil from Whiting was again clearly seen around Hammond Water Works.
15.	1332 A.	180	—	
16.	1333 A.	1,650	+	
17.	1334 A.	6	—	
18.	1335 A.	8	—	
19.	1336 A.	1	—	
20.	1337 A.	1,000	+	
21.	1338 A.	60,000	+	
22.	1339 A.	2,400,000	+	
23.	1340 A.	120,000	+	
24.	1341 A.	3,000	+	
25.	1342 A.	7,000	+	
26.	1343 A.	400	+	
27.	1344 A.	50	—	
28.	1345 A.	15	—	
29.	1346 A.	5	—	
30.	1347 A.	6	—	
31.	1348 A.	35,000	+	
32.	1349 A.	59,400	+	
33.	1350 A.	109,000	+	
34.	1351 A.	100,000	+	
35.	1352 A.	30,000	+	

TABLE No. 26—Continued.

Sampling Point.	Laboratory Number.	Bacteria.	B. Coli.	Remarks.
37.	1353 A.	25,000	+	
38.	1354 A.	3,000	—	
39.	1355 A.	260	—	
40.	1356 A.	3	—	
41.	1357 A.	8	—	
43.	1358 A.	10,000	+	
45.	1359 A.	6,000	+	
46.	1360 A.	2,000	—	
47.	1361 A.	20	—	

TABLE No. 27.—LAKE COUNTY, IND.

NUMBER OF BACTERIA PER C.C. IN LAKE MICHIGAN WATER, SEPTEMBER 26, 1906.

Sampling Point.	Laboratory Number.	Bacteria.	B. Coli.	Remarks.
1.	1362 A.	4,000	+	Wind south, fresh.
2.	1363 A.	65	—	
3.	1364 A.	150	—	
4.	1365 A.	97	—	
5.	1366 A.	35	—	
6.	1367 A.	1	—	Lake smooth.
7.	1368 A.	6	—	
8.	1369 A.	3	—	
9.	1370 A.	250	—	
10.	1371 A.	80	—	
11.	1372 A.	900	+	
12.	1373 A.	80,000	+	Current south to north.
13.	1374 A.	1,300	+	
14.	1375 A.	500	+	
15.	1376 A.	60	—	
16.	1377 A.	110	—	

TABLE No. 27—Continued.

Sampling Point.	Laboratory Number.	Bacteria.	B. Coll.	Remarks.
17.	1378 A.	8	—	
18.	1379 A.	9	—	
19.	1380 A.	20	—	
20.	1381 A.	1,000	+	
21.	1382 A.	200	+	
22.	1383 A.	2,200,000	+	
23.	1384 A.	27,000	+	
24.	1385 A.	150,000	+	
25.	1386 A.	13,000	+	
26.	1387 A.	36,000	+	
27.	1388 A.	220	+	
28.	1389 A.	250	—	
29.	1390 A.	30	—	
30.	1391 A.	21	—	
31.	1392 A.	10,000	+	
32.	1393 A.	15,000	+	
33.	1394 A.	36,000	+	
34.	1395 A.	32,000	+	
36.	1396 A.	11,000	+	
37.	1397 A.	29,700	+	
38.	1398 A.	1,200	+	
39.	1399 A.	30	—	
40.	1400 A.	15	—	
41.	1401 A.	0	—	
43.	1402 A.	30,000	+	
45.	1403 A.	1,500	+	
46.	1404 A.	18,000	+	
47.	1405 A.	13,000	+	

TABLE No. 28.—LAKE COUNTY, IND.

NUMBER OF BACTERIA PER C.C. IN LAKE MICHIGAN WATER, AUGUST 19, 1908. TO SEPTEMBER 27, 1908.

Sampling Point.	Depth of Water in Feet.	Bacteria.			B. Coli Present During Test, Per Cent of Days..
		Maximum.	Minimum.	Average.	
1.	3	300,000	60	32,813	60
2.	24	200,000	10	23,802	33
3.	21	65,000	40	4,448	50
4.	24	80,000	15	4,803	28
5.	31	9,000	10	631	18
6.	31½	150	1	38	11
7.	30½	6,000	4	590	36
8.	33	140	2	29	11
9.	30	250,000	250	40,333	33
10.	24	2,000	10	506	0
11.	33	350,000	60	52,655	64
12.	2½	500,000	10	162,821	90
13.	26	180,000	100	32,222	55
14.	20	175,000	80	20,214	76
15.	30	3,300	20	435	22
16.	29	1,650	6	872	31
17.	31	12,000	6	824	6
18.	39½	140	8	32	0
19.	38	400	8	60	0
20.	31	190,000	100	25,334	55
21.	6	900,000	2,000	145,136	55
22.	6	3,500,000	200,000	1,811,000	100
23.	15	600,000	2,600	120,177	100
24.	24	150,000	900	19,022	90
25.	20½	1,000,000	180	99,975	100
26.	23½	200,000	10	15,558	57
27.	31½	14,000	10	2,216	37
28.	32	2,500	15	314	9
29.	36	12,000	5	1,172	14
30.	40	2,300	6	256	16
31.	27	900,900	1,000	86,480	100
32.	25	90,080	140	24,382	82

TABLE No. 32.—LAKE COUNTY, IND.

TYPHOID DEATHS IN THE CITY OF EAST CHICAGO FROM 1903 TO 1908.

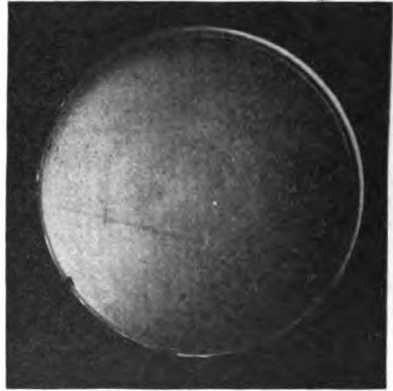
Months.	1903.	1904.	1905.	1906.	1907.
January.....	0	0	0	1	0
February.....	0	1	0	0	1
March.....	0	0	0	0	1
April.....	0	0	0	0	0
May.....	0	0	0	0	2
June.....	0	0	0	0	1
July.....	0	0	0	0	0
August.....	0	0	0	0	1
September.....	0	0	0	0	1
October.....	0	0	0	0	1
November.....	0	2	0	0	1
December.....	0	0	1	0	3
Total.....	0	3	1	1	12
Rate per 100,000.....	0	55	13	13	100

I.



Unprotected Plate.

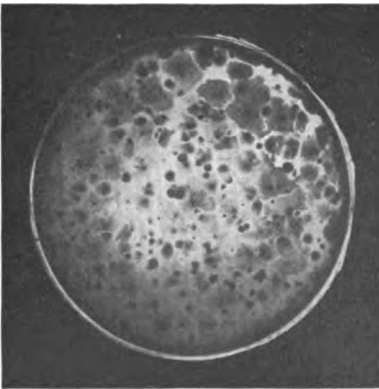
II.



Protected Plate.

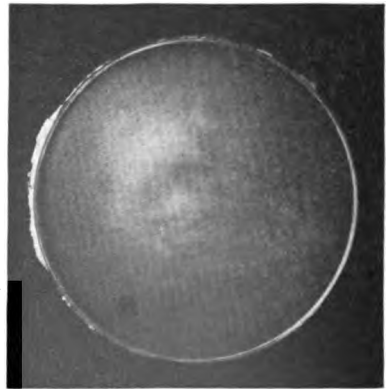
PLATES EXPOSED AT A CANDY STAND ON THE STREET CORNER.

III.



Unprotected Plate.

IV.



Protected Plate.

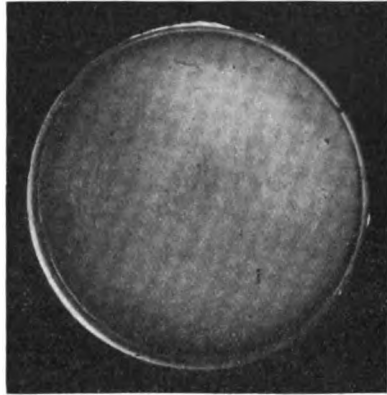
PLATES EXPOSED AT PROTECTED AND UNPROTECTED WINDOWS OF A
CANDY VENDOR.

V.



Unprotected Plate.

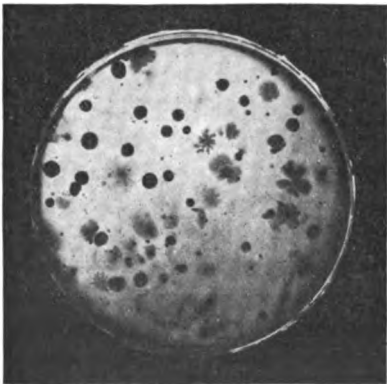
VI.



Protected Plate.

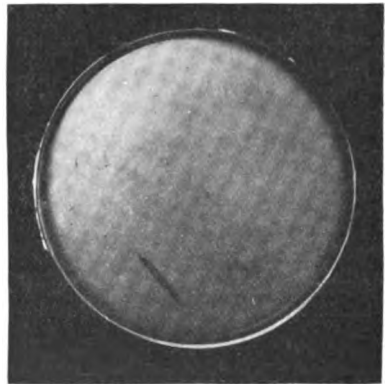
PLATES EXPOSED AT A FRUIT STAND.

VII.



Unprotected Plate.

VIII.



Protected Plate.

PLATES EXPOSED AT THE CHEESE COUNTER OF A GROCERY STORE.

out into an open well and from there it is hauled away in wagons. Employees are neat and cleanly. No preservative is used in the tomato pack, but eight ounces of benzoate of soda is used to the barrel of pulp, and this is the product of whole fruit and the discarded parts from the peeling tables.

ARCADIA—

Arcadia Canning Factory: The building is of frame, and in good condition with the exception of the floors, which are constructed of loose boards. The condition about the toilet rooms is only fair, and there are no washroom facilities provided. No preservatives are used, but the tomato catsup pulp is the refuse from the peeling tables. Notice was given to provide new floors and screen building.

ADVANCE—

Advance Canning Company: The factory building is old and dilapidated; the floors are in fair condition, but there is no adequate sewage system. Toilet conditions are wholly unsatisfactory and there are no washroom arrangements provided. No preservative is used in the pack, but the pulp is made from refuse stock. Ten barrels of tomato catsup pulp was taken off the market at our suggestion, for the reason that it had been made in part from decomposed product. Notice given to install sorting apparatus at once, repair the factory and dispose of refuse.

ANDERSON—

Anderson Canning Company: The building is in good condition, and the floors and drain are both satisfactory. The pulp is made from table stuff and whole fruit. There are no washroom facilities and galvanized iron buckets were used for the reception of peeled fruit. Ordered, that screens be put up and washroom arrangements be provided and wooden or fibre buckets be used, instead of the zinc.

AMBOY—

Amboy Canning Company: The building is of frame and in only fair condition. Floors are poor, and on account of their open condition the sewage is allowed to run under the building. Whatever part of the refuse is gathered up is dumped into a nearby creek. The toilet conditions are not satisfactory, and the building is located 300 feet from a cemetery. The tomato pulp is discarded.

AURORA—

H. D. Tufts: The building is of frame. The conditions are fair. The floors are partially satisfactory, and the water and refuse are gathered up by hand and dumped into a sewer. The toilet conditions are good and the pulp is discarded.

BIRDSEYE—

Birdseye Canning Company: The building is of frame, and in fair condition. Floors are double and the sewage is hauled away. Toilets are poor. Pulp is made from skinning-table refuse, and eight ounces of benzoate is used per barrel. The employees are neat and cleanly.

PAXTON—

Paxton Canning Company: Factory abandoned.

PIERCETON—

Reid, Murdock & Co.: The building is of brick and frame and is satisfactory. The sewage is disposed of by hauling it away; the floors are rather poor and the toilets are unsatisfactory. One-twelfth of one per cent of benzoate of soda is used in chili sauce. None is used in catsup. Pulp is made from whole sound fruit. Screens and wash-room facilities were ordered.

PLYMOUTH—

Plymouth Manufacturing and Canning Company: The building here is of frame, and in only fair condition, and the floors are unsatisfactory. There is no sewage system, the slops being thrown outside of the building. Toilets are dilapidated and no wash-rooms are provided. Pulp is made from the whole fruit and the refuse. No preservatives are used. Ordered that the accumulation about the factory be removed, that the toilets be put in good condition, wash-room facilities installed and the building screened.

PERU—

Peru Canning Company: The frame building is in good condition; the floors are satisfactory and there is a suitable drain. Toilet conditions are satisfactory, but the pulp is made from refuse and no preservatives are used.

ROCKPORT—

Rockport Canning Company: Building burned before starting operations; will not rebuild.

RISING SUN—

Rising Sun Canning Company: The building is of frame, is in good condition and the floors are satisfactory. The refuse is sewerred out and hauled away, and the toilet conditions are good. Wash-room facilities are provided. Employees are clean and apparently healthy. The tomato pulp is made from whole stock and refuse, and benzoate of soda is used as a preservative.

SEYMOUR—

Seymour Canning Company: The building is a frame structure in good condition, with good floors. The refuse is sewerred out of the building and hauled away. Toilet room conditions are fair; wash-room facilities are provided, and employees are clean and apparently healthy. The catsup stock is made from whole fruit and stuff discarded by the peelers. Eight pounds of salt is used per barrel as a preservative.

SELLERSBURG—

Sellersburg Canning Company: The building is of frame, in poor condition, and the floors are bad. At the time of inspection this factory was not running.

LAGRANGE, LAGRANGE COUNTY—

One catsup factory was inspected and found to be in a poor condition, as no screens were provided, the walls, ceilings and floors were dirty, and the factory was poorly lighted and ventilated.

LAPORTE, LAPORTE COUNTY—

Of 10 groceries inspected, 6 were found in good shape and 2 fair. The groceries owned by K. W. Kerr and C. F. Miller & Son were in excellent condition. The meat markets owned by C. E. Miller & Son and Thrush & Barnum were found excellent. One was good and 2 fair. The drug store owned by L. P. Savage was in excellent condition. One was found good and 1 fair. Of 4 bakeries and confectioneries visited, 1 was good and 3 fair. Of 5 hotels and restaurants inspected, 2 were found good, 2 fair and 1 poor, being unclean.

LAWRENCE, MARION COUNTY—

Four dairies were inspected, and 2 were found fair, 1 poor and 1 bad. Notice was given to screen milk house, put in more light, and separate the cows from the horses.

LAWRENCEBURG, DEARBORN COUNTY—

Seven first inspections were made. One meat market, 1 fish market and 1 drug store were inspected and found to be in good condition. Of 3 bakeries and candy shops inspected, 2 were found good and 1 fair. One ice cream factory was in a fair condition. Twenty-four second inspections were made. Of 10 groceries inspected, 6 were found good, 3 fair and 1 poor, having a slovenly-kept stock. Of 6 bakeries and confectioneries visited, 4 were found good and 1 fair, and the confectionery owned by Ernest Kerstuer was in excellent condition. Two slaughter-houses were found good and 1 fair. Three meat markets and 2 hotels were visited, and found in good condition. Five drug stores were visited on the third inspection, and found good.

LEBANON, BOONE COUNTY—

Twenty-nine first inspections were made. Of 7 groceries visited, 2 were found in good shape and 3 fair. Those owned by Creath & Silver and the Pure Food Grocery Co. were in excellent condition. Of 3 meat markets visited, 2 were good and 1 fair. Of 8 drug stores visited, 2 were found good, 4 fair, and 1 poor, being unclean. The one owned by Grafton Allen was in excellent condition. Three bakeries and candy shops were in good shape. Eight hotels and restaurants were visited. Four were found in good shape, 2 fair and 1 poor, being unclean. Frank Dale's restaurant was found to be excellent. One second inspection was made. Creath & Silver's grocery was in excellent condition.

LIBERTY, UNION COUNTY—

Of 7 groceries inspected, 1 was found good and 6 fair. Three meat markets were visited, 1 being good and 2 fair. Of 4 drug stores visited, 3 were found good and 1 fair. Two bakeries, 1 hotel and 2 restaurants were found to be in fair condition.

LOGOOTEET, MARTIN COUNTY—

Of 5 first inspections made, 1 grocery was found good, 1 meat market fair, 1 confectionery good, the bakery owned by Joseph H. Carrico is in excellent condition, and 1 restaurant was found to be good. Of 17 second inspections made, 9 groceries were found good; 3 meat markets, 1 good and 2 fair; 3 drug stores and 1 restaurant, good; 3 slaughter-houses and 1 confectionery, fair. Twenty-four cans baking powder, 14 cans of meat and 8 bottles of extract were condemned.

(Second Visit.)—Four second inspections were made. One grocery and 1 slaughter-house were found to be good. One meat market and 1 restaurant were visited and found fair. Fifteen third inspections were made. One slaughter-house was visited and found in poor condition, being unclean. Seven groceries, 1 meat market, 3 drug stores, 2 bakeries and confectioneries and 1 hotel were inspected, and all found to be in good condition.

LYONS, GREENE COUNTY (First Visit)—

Sixteen inspections were made. Of 6 groceries visited, 1 was in good shape and 5 were fair, being unclean. Of 3 meat markets visited, 2 were in fair condition and 1 was in poor shape, having an unclean refrigerator, floor and back shop. Orders were given to clean up. Of 4 drug stores inspected, 3 were good and 1 was fair, due to the dirty condition of the back shop, shelves and counters. The goods carried were not up to date. Of 3 restaurants visited, 1 was fair and 2 were in poor condition, due to uncleanliness.

(Second Visit.)—Sixteen first inspections were made. Of 6 groceries inspected, 2 were found good and 1 fair. Of 3 meat markets visited, 1 was found fair and 2 poor, being unclean and having foul refrigerators. One slaughter-house was found fair. One bakery was found fair. Notice was given to clean up the back room. Of 5 hotels and restaurants inspected, 1 was found good, 2 fair and 2 poor. One of the restaurants was condemned. Ten and one-half pounds of meat were condemned.

MACE, MONTGOMERY COUNTY—

Two groceries were inspected. One was in fair condition and one bad. Notice was given to clean up at once.

MADISON, JEFFERSON COUNTY—

Of 6 dairies inspected, 3 were found good, 1 fair and 2 poor, the buildings being condemned on account of unsanitary conditions. Of 4 groceries visited, 3 were found good and 1 fair. Two poultry houses were found fair. Twenty-seven second inspections were made. Five dairies were visited and found fair. Of 6 groceries inspected, 5 were found good and 1 fair. One fish market and 1 ice cream parlor were found fair. Of 4 bakeries and confectioneries inspected, 3 were found good and 1 fair. Of 8 hotels and restaurants inspected, 3 were found good and 5 fair. One canning factory was inspected, and with the exception of a holey floor, letting the water run through and stand in pools under the floor, the factory would be in good condition. Fifty-six third inspections were made. Of 29 groceries visited, 26 were found good, 1 poor, and the groceries belonging to F. W. Pfortner

MEDARYVILLE, PULASKI COUNTY—

Thirteen inspections were made. Of 4 groceries visited, 2 were found good and 2 fair. One meat market was found good and 1 fair. One slaughter-house and 1 bakery were inspected and found to be fair. Two drug stores were visited and found in good shape. Of 3 hotels and restaurants inspected, 1 was found good, 1 fair, and 1 poor, being unclean, poorly lighted and badly ventilated. Five pounds of meat were condemned.

MEDORA, JACKSON COUNTY—

Twelve inspections were made. Of 8 groceries visited, 6 were found good and 2 fair. One meat market was found to be in good shape. One slaughter-house was condemned, being in a very bad condition. One drug store and 1 confectionery were found to be in a fair condition. Forty-three bottles of extract, 47 cans of meat, 149 cans of baking powder and 10 bottles of catsup were condemned.

MEMPHIS, CLARK COUNTY—

Three inspections were made. Of 2 groceries inspected, 1 was found good and 1 fair. One canning factory was inspected and found in fair shape.

MICHIGAN CITY, LAPORTE COUNTY—

Seventeen dairies were inspected, and 1 was found good, 10 fair, 5 poor and 1 bad. One grocery was found good and 1 fair. Two meat markets were found, 1 good and 1 fair. Of 3 slaughter-houses inspected, 2 were poor and 1 was fair. One drug store was rated good. Of 7 bakeries and candy shops inspected, 3 were good, 3 fair and 1 poor. Of 6 hotels and restaurants visited, 4 were found good and 2 fair.

MIDDLETOWN, HENRY COUNTY—

Thirteen inspections were made, two restaurants, 1 bakery, 4 groceries, 2 meat markets and 1 slaughter-house were found to be in fair condition. One slaughter-house was condemned, being very unsanitary. Of two drug stores visited, 1 was in good condition and 1 was fair.

MILFORD, KOSCIUSKO COUNTY—

Two dairies were visited, and 1 was found fair and 1 poor, being unclean. Of 7 groceries visited, 3 were good, 2 fair and 1 poor. The grocery owned by C. C. Neer was in excellent condition. Of 3 meat markets inspected, 2 were found fair and 1 poor, having unclean and slimy refrigerators. One slaughter-house was found in an unsanitary condition. One drug store was rated good and 1 fair. One bakery was rated fair. One hotel was inspected and found in good shape, and 1 restaurant was found fair and 1 poor. Twenty pounds of dried fruit and 20 pounds of dates were condemned.

MILTON, WAYNE COUNTY—

Three groceries and 2 meat markets were visited and found to be in fair condition. Of 2 drug stores, 1 was good and 1 fair. One bakery was in good shape. One slaughter-house was fair. Two hotels and restaurants were visited and found in fair shape.

1 poor, being unclean. Of 3 hotels and restaurants inspected, 2 were good and 1 fair. Two bakeries and candy shops were visited and found in fair condition. Seventy-five pounds of meat were condemned.

MONTGOMERY, DAVIESS COUNTY—

Of 8 groceries inspected, 7 were good and 1 was fair. Two meat markets, 1 drug store, and 1 restaurant were found in good shape. One slaughter-house was condemned, being in a bad condition. Seventy-six cans of baking powder, 15 cans of meat and 5 bottles of catsup were condemned.

MONTPELIER, BLACKFORD COUNTY—

Sixteen inspections were made. Of 5 groceries inspected, 1 was in good shape and 4 were fairly clean. Five meat markets and slaughter-houses were found to be in fair condition. Two drug stores were in good shape. One bakery was fair. Of two restaurants, 1 was in good shape and 1 was fairly clean.

MOORESVILLE, MORGAN COUNTY—

Eleven inspections were made. Three groceries and 2 meat markets were in fair condition. Notice was given to clean things up and cover dried fruits and put away prepared meats. Three drug stores were visited, 1 being good, 1 fair and 1 poor. The store was unclean, poorly lighted and ventilated. One confectionery was found fair and the bakery owned by Lina Taggart was excellent. One restaurant was found to be in good shape. Four dozen quarts of apple butter were condemned. Ten dairies were inspected and 4 were found good, 3 fair, 1 poor and 2 bad, being condemned and closed.

MORRISTOWN, SHELBY COUNTY—

Four groceries, 2 meat markets, 1 slaughter-house, and 2 restaurants were in a fair condition. Notice was given to put cheese in case and fruits and other goods under cover. Two drug stores were visited, 1 being good and 1 fair. Forty-five bottles of vanilla extract were condemned. Two dairies were visited, and 1 was found fair and 1 poor. Ten days were given to put in windows and build partition separating the horses from the cows. The place was closed until these orders were complied with.

MT. VERNON, POSEY COUNTY—

Two restaurants were inspected and 1 was found poor and 1 bad, both being unclean. In one of the restaurants there was a barber shop in the same room. The place was condemned. Fourteen third inspections were made. Three groceries were found good and 1 fair. Three meat markets and 3 drug stores were visited and found to be in good condition. One bakery and confectionery was found good and 1 confectionery was found fair. Two restaurants were visited, and 1 was found in fair shape and 1 poor, being poorly lighted and ventilated.

MUNCIE, DELAWARE COUNTY (First Visit)—

Of 22 dairies inspected, 1 was found good, 11 fair, 9 poor and 1 bad. Several of the dairies needed new floors and a general clean up. Sixteen groceries were visited, 10 being in good shape and 6 fair. Goods were

WEST BADEN, ORANGE COUNTY—

One grocery and 2 meat markets were visited and found to be in fair shape. Two hotels and restaurants were good. Forty-nine cans of baking powder were condemned. Nine second inspections were made. Of 2 groceries, 1 was found good and 1 fair. One meat market was fair. Of 2 drug stores, 1 was good and 1 fair. Four hotels and restaurants were found in good condition. Seven cans of meat, 3 bottles of extract and 3 cans of baking powder were condemned.

WESTFIELD, JASPER COUNTY—

One grocery store, 1 meat market and 2 drug stores were inspected, and found in fair condition. Two restaurants were inspected and found in good condition.

WHITELAND, JOHNSON COUNTY—

Of 20 dairies inspected, 1 was found good, 5 fair, 6 poor and 8 bad. Notices were given to clean up, put in concrete floors, screen milk house, put in windows, whitewash, and separate cows from horses. Several dairies were condemned until made sanitary. One canning factory was inspected, and found in good condition. On the second inspection, 3 dairies were visited, 1 being fair and 2 poor, which were condemned and closed until made sanitary.

WHITING, LAKE COUNTY—

One dairy was inspected and found to be fair, and 1 poor. Five milk depots were inspected. Four were found poor and 1 bad; the utensils used were dirty and the general conditions of the dairies were bad. One grocery, 1 meat market, and 1 confectionery were visited and found in poor condition, being very unclean.

WINAMAC, PULASKI COUNTY (First Visit)—

One grocery, 1 meat market, 1 restaurant and 1 bakery were inspected and found in good condition.

(Second Visit.)—Of 6 groceries visited, 3 were found good and 3 fair. Two meat markets were good. Of 3 drug stores, 2 were good and 1 fair. Of 2 hotels and restaurants, 1 was fair and 1 poor, being unclean and not well ventilated. Fifteen pounds of fish and 1 quart of oysters were condemned.

WINCHESTER, RANDOLPH COUNTY—

Of 12 groceries inspected, 1 was found good and 11 fair. Five meat markets were in fair shape. Two slaughter-houses were visited; 1 was fair and 1 bad, being unclean. Three drug stores were found in good shape. Of 6 bakeries and confectioneries visited, 1 was found good and 5 fair. Two restaurants were in fair condition. Goods were ordered put under cases.

WORTHINGTON, GREENE COUNTY (First Visit)—

One grocery was inspected and found to be in good condition. One restaurant was inspected and found to be in poor condition, being poorly lighted, not ventilated and unclean. Two second inspections were made, 1 being good and 1 poor.

REPORT OF COMMITTEE ON STATE MEDICINE AND HYGIENE.

J. N. HURTY, CHAIRMAN, INDIANAPOLIS.

(For 1908, at French Lick.)

In a recent article entitled "The Prevention of Crime," by Prof. Hugo Münsterburg, the statement is made that "Hygiene can prevent more crime than any law." Of course the author refers to that broad, deep hygiene which not only considers the management of transmissible diseases, but which also comprehends the control of the perpetuation of the race. Prof. E. Ray Lankester in his work "The Kingdom of Man," calls attention to the fact that it is man's constant disharmony with his environment which brings disease upon him, and therefore he must obey hygiene, which points out the harmonies to be attained if he would cease to suffer. Professor Lankester also calls attention to the fact that inasmuch as we have, through the practical application of hygiene to every-day life, succeeded in extending the average duration of life to a fraction beyond forty years, there is danger of overpeopling the world with the unfit. He therefore urges the practical enforcement of that higher hygiene which is the only force to control the production of the unfit. It seems that Indiana is the first state in the world to begin this work, and the sterilization law enacted by the legislature of 1907 marks that beginning. The credit of this wise and epoch making statute belongs primarily to Dr. H. C. Sharpe, surgeon of the Indiana Reformatory. He was the first in Indiana to practice vasectomy upon prisoners who, on account of their offenses, were obviously unfit to procreate their kind. Through his early work and writings a movement arose which culminated in a definite bill, and the Hon. Horace G. Read, M. D., member of the General Assembly from Tipton county, introduced and pushed the same through. The law being, as said, epochal, is given herewith:

ment of Science, April 18, 1907. The objects of the committee are to do what is reasonable for the advancement of the public health, but especially to secure a national health department. An extraordinary paper by Professor Norton, of Yale University, before the National Association for the Advancement of Science called forth the organization. In this paper Professor Norton called attention to the fact that the United States Government spent millions annually for the cure and prevention of disease in plants and animals, but spent comparatively nothing upon human beings for a like purpose.

This committee of one hundred has been endorsed by President Roosevelt, ex-President Grover Cleveland, all of the great newspapers and a score or more of great national societies, including the American Medical Association. The president is Prof. Irving Fisher, of Yale University, and among the vice-presidents are to be found the names of Rev. Lyman Abbott, Miss Jane Addams, Prof. Felix Adler, Hon. Joseph Choate, President Chas. Eliot, of Harvard University, Mr. John Mitchell and Dr. Wm. H. Welch.

An auxiliary society to the Committee of One Hundred is the American Health League, which now has over 9,000 members. This organization will supplement and support the work of the Committee of One Hundred, constituting as it were a reserve force in constant action. The league has an official organ named "American Health," the first number being issued in April, 1906.

It would be to the honor of the Indiana State Medical Association to pass resolutions endorsing this great public health movement.

TO COMBAT AGAINST TUBERCULOSIS.

A review of the law of 1907 creating a State Tuberculosis Hospital was given in a former report, and now we have to record that a site, fulfilling as near as may be all requirements, has been purchased near Rockville, in Parke county.

It now remains to construct the buildings and to provide for the support of the institution. For this a proper appropriation must be made by the General Assembly of 1909, and judging by the experience in securing the first step, the medical profession has still more work to do. And, of course, it is expected that the coming legislature must be educated and led in this important matter, concerning which the majority of its members in the beginning can have little knowledge.

This committee therefore urges continued activity on the part of this association, and recommends the passage of a resolution set-

Statistical Report for the Year 1908.

REGISTRATION REPORT, 1908.

This report is for the calendar year 1908. The populations are based upon the school census multiplied by $3\frac{1}{2}$. This census is taken annually.

In the following tables the causes of death are arranged according to the International Classification, which has been adopted by all of the registration States of the country. This international classification was used by the United States Bureau of the Census in its last statistical compilation of causes of death.

Table 1 is a classification of all deaths, with rates per 100,000 population, classified and arranged according to the international system.

Table 2 is a classification of deaths from all causes by months, ages, color, nationality and conjugal condition.

Table 2A is a recapitulation of the classified deaths by months, ages, color, nationality and conjugal condition.

Table 3 gives deaths from all causes by counties, months, ages, color, nationality and conjugal condition.

Table 4 gives deaths from certain diseases by geographical sections and by counties.

Table 5 gives death rates from certain important causes by counties in geographical sections.

Table 6 gives annual death rates for nine years, 1900 to 1909, with average of cities of 5,000 population and over, compared with rural and state rates.

Table 7 gives deaths according to occupations by months and ages.

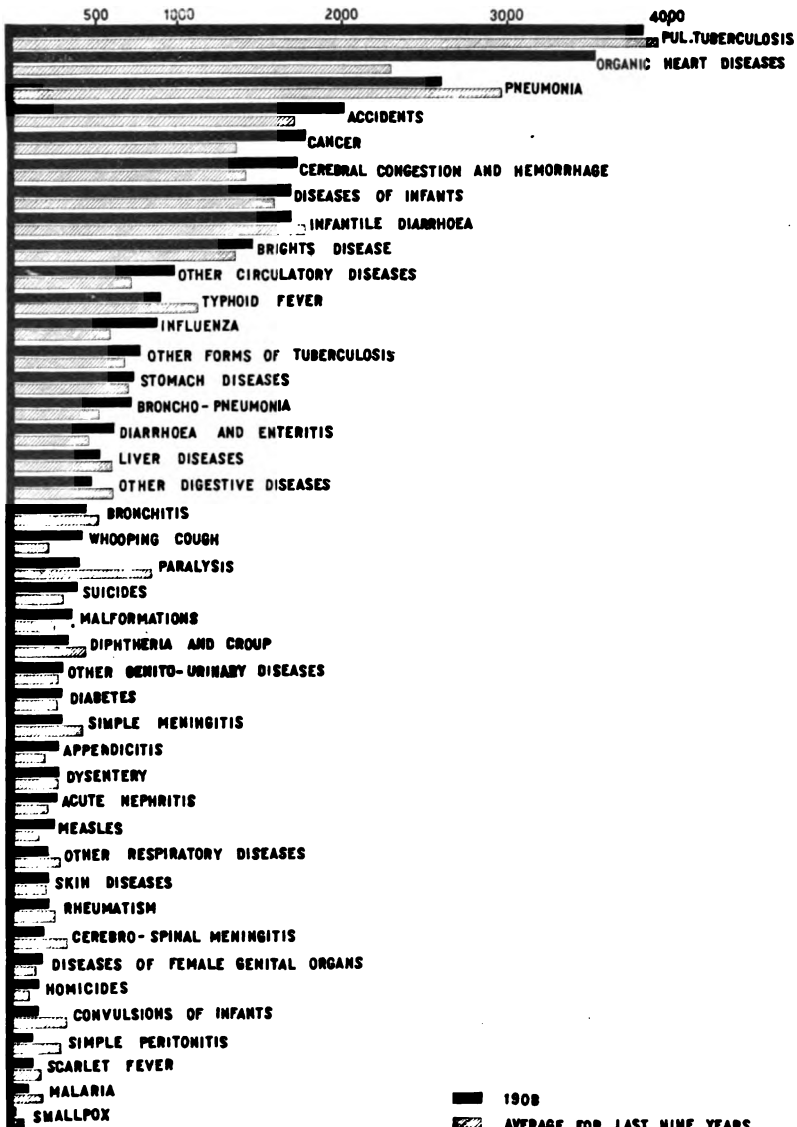
Table A gives births by counties, months, color and nationality of parents.

Table B gives births by counties, number of children born to each mother, grouped ages of parents, stillbirths, plurality and illegitimate births.

Table C gives by counties the marriages by months, color and nationality.

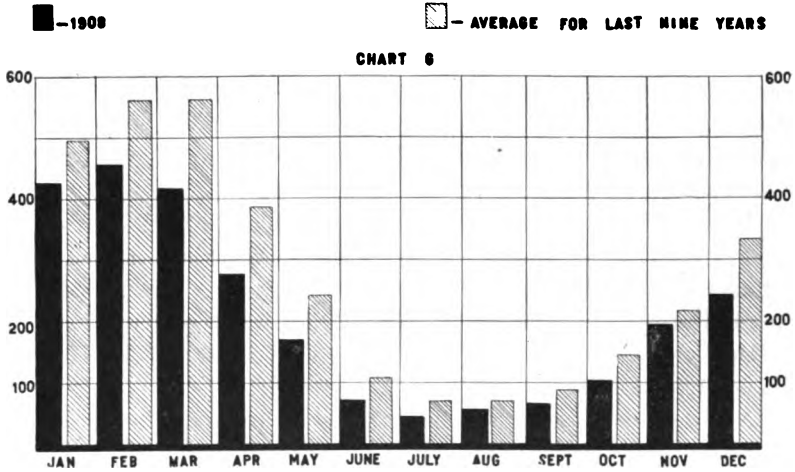
Table D gives by counties the marriages by grouped ages.

PRINCIPAL CAUSES OF DEATH

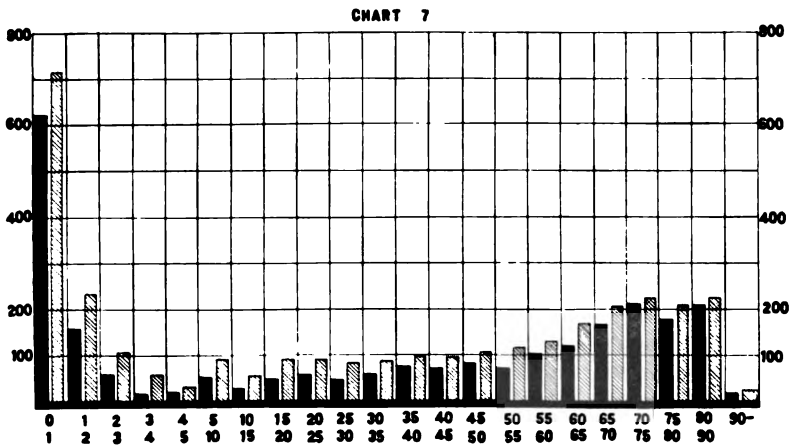


PNEUMONIA DEATHS

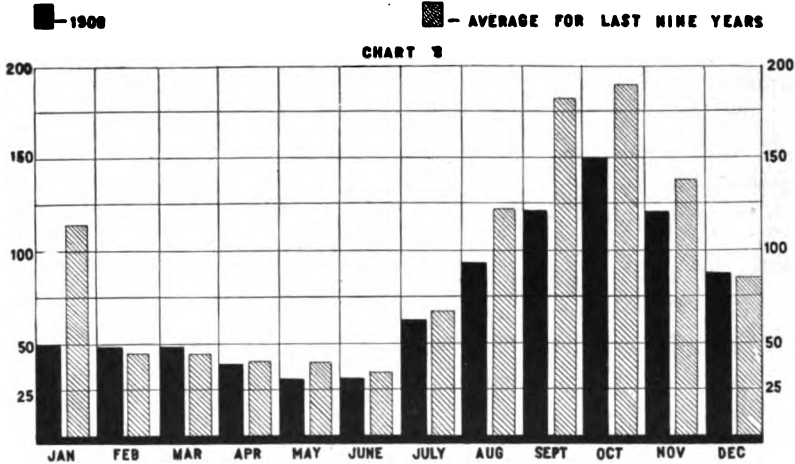
BY MONTHS



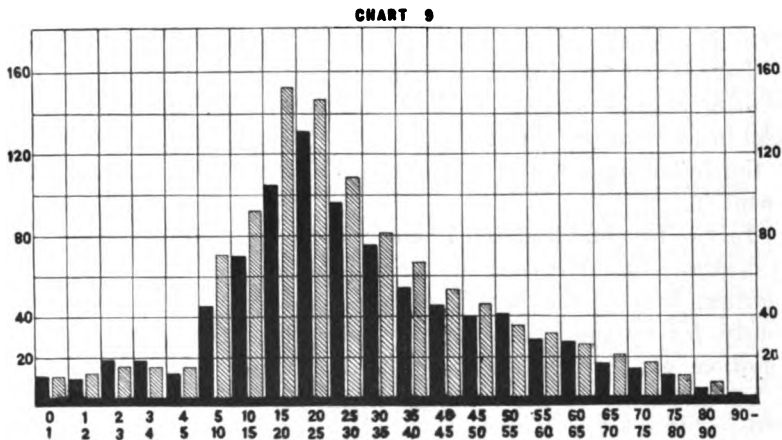
BY AGES



TYPHOID FEVER DEATHS BY MONTHS



BY AGES



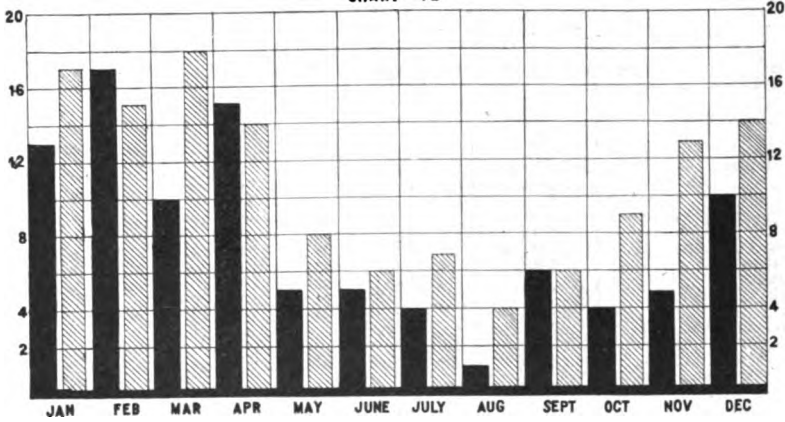
SCARLET FEVER DEATHS

BY MONTHS

■ — 1908

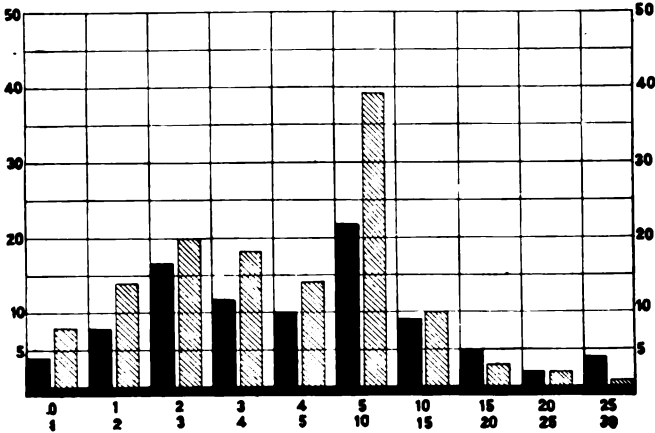
▨ — AVERAGE FOR LAST NINE YEARS

CHART 12



BY AGES

CHART 13

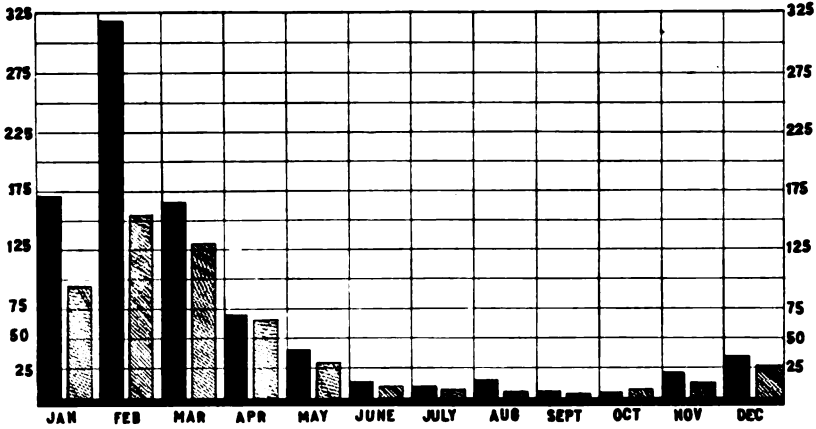


INFLUENZA DEATHS BY MONTHS

■ - 1900

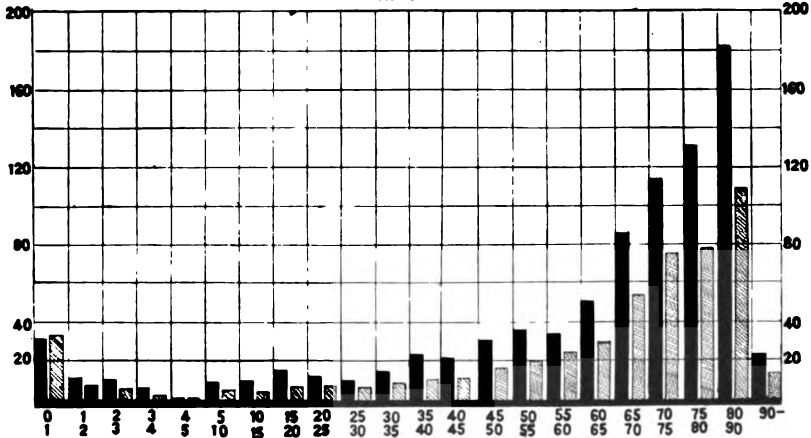
▨ - AVERAGE FOR LAST NINE YEARS

CHART 17



BY AGES

CHART 18



February.—The deaths by violence numbered 146. In the corresponding month last year, 195. Of the 146 deaths by violence, 7 were murders, 23 suicides, and the remainder accidents. Of the murders, 2 were caused by gunshots, 3 by stabbing, and 2 by blunt instruments. Of the suicides, 9 were by gunshots, 3 by cutting throat, 2 by drowning, 2 hanging, 3 chloroform, 2 paris green, 2 strychnia. Of the accidental deaths, steam railroads caused 30, street cars and interurbans 4, crushing injuries 13, machinery 1, mining 7, falls 13, drowning 3, gunshots 4, burns and scalds 13, horses and vehicles 3, accidents at birth 4, suffocation 3, strangulation 5, ptomaine poisoning 4, other poisons 4, electricity 2, frozen to death 2, not named 2.

March.—The deaths by violence numbered 154. In the corresponding month last year, 166. Of the deaths by violence, 5 were murders, 4 males and 1 female. One murder was by gunshot, 2 by cutting throat and 1 suffocation (infanticide). Suicides numbered 27, 18 males and 9 females; the methods chosen were gunshots 8, stepping in front of railroad trains 2, drowning 2, cutting throat 2, carbolic acid 7, different poisons 6. Of the 123 accidental deaths, 26 were females, 97 males; steam railroads caused 19 deaths, street car and interurbans 7, falls and crushing injuries 31, burns and scalds 9, gunshots 2, drowning 6, horses and vehicles 4, machinery and mining 12, automobiles 1, various poisons 5, suffocation and strangulation 8, lockjaw 2, freezing 1, electricity 5, accidents at birth 6, powder explosions 2.

April.—The deaths by violence numbered 154; in the corresponding month last year, 149. Of the deaths by violence, 111 were males, 43 females. Of the males, 84 lost their lives by accident, 4 by murder, 24 by suicide. Of the females, 2 were murders, 31 killed by accident and 10 were suicides. The total number of suicides, 33. The methods chosen for self-destruction were: Carbolic acid 9 (6 males and 3 females), gunshots 9 (all males), drowning 2 (male 1, female 1); throwing themselves under railroad trains 2 (male 1, female 1); arsenic and other poisons 11 (male 6, female 5). The murders numbered 6 (4 males and 2 females). Of the accidental deaths, the steam railroads caused 22 deaths, street cars and interurbans 5, automobiles 1, crushing injuries by machinery and in other ways 15, burns and scalds 16, gunshots 2, drowning 10, falls 10, strangulation 2, asphyxiation and suffocation 11, ptomaine poisoning 2, morphine and other poisons 3, horses and vehicles 5, and other causes 11,

TABLES OF ANNUAL STATISTICAL REPORT FOR THE YEAR 1908.

TABLE 1.

*Deaths in Indiana During the Year Ending December 31, 1908,
Statistically Classified by the International System, with Rates Per
100,000 Population, Based Upon School Census of 1908 Multi-
plied by $3\frac{1}{2}$ —2,730,144.*

Classification Number.	CAUSES OF DEATH.	Number of Deaths.	Death Rate Per 100,000.
I. GENERAL DISEASES—EPIDEMIC.			
1	Typhoid fever.....	885	32.4
2	Exanthematous typhus.....		
3	Recurrent fever.....		
4	Intermittent and malarial fever.....	83	3.0
5	Varicella or smallpox.....	10	.3
6	Measles.....	209	7.6
7	Scarlatina.....	95	3.4
8	Whooping cough.....	416	15.2
9	Croup.....	18	.6
9a	Diphtheria.....	297	10.8
10	Influenza.....	867	31.7
11	Miliary fever.....		
12	Asiatic cholera.....		
13	Cholera nostras.....	18	.6
14	Dysentery.....	245	8.9
15	Bubonic plague.....		
16	Yellow fever.....		
17	Leprosy.....		
18	Erysipelas.....	86	3.1
19	Other epidemic diseases.....	1	.03
20	Purulent septicemia and infection.....	95	3.4
21	Glanders and farcy.....		
22	Malignant pustule and anthrax.....	2	.07
23	Rabies.....	5	.1
24	Actinomycosis, trichinosis, etc.....	2	.07
25	Pellagra.....		
26	Tuberculosis of the larynx.....	48	1.7
27	Tuberculosis of the lungs.....	3,777	138.3
28	Tuberculosis of the meninges.....	205	7.5
29	Abdominal tuberculosis.....	275	10.0
30	Pott's disease.....	29	1.0
31	Cold abscess.....	2	.07
32	White swelling.....	30	1.0
33	Tuberculosis of other organs.....	70	2.5
34	General tuberculosis.....	91	3.3

TABLE No. 1—Continued.

Classification Number.	CAUSES OF DEATH.	Number of Deaths.	Death Rate Per 100,000.
IV. DISEASES OF THE RESPIRATORY SYSTEM.			
87	Diseases of the nasal fossae.....	3	.1
88	Diseases of the larynx.....	26	1.4
89	Diseases of the thyroid body.....	10	.5
90	Acute bronchitis.....	229	8.7
91	Chronic bronchitis.....	213	7.8
92	Broncho-pneumonia.....	676	24.7
93	Pneumonia.....	1,083	62.0
94	Pleurisy.....	57	2.0
95	Congestion and apoplexy of the lungs.....	145	5.4
96	Gangrene of the lungs.....	..	..
97	Asthma.....	79	2.8
98	Pulmonary emphysema.....	5	.1
99	Other diseases of the respiratory system (phthisis excepted).....	59	2.1
V. DISEASES OF THE DIGESTIVE SYSTEM.			
100	Diseases of the mouth and adnexa.....	25	.9
101	Diseases of the pharynx.....	34	1.2
102	Diseases of the esophagus.....	3	.1
103	Ulcer of the stomach.....	81	2.9
104	Other diseases of the stomach (cancer excepted).....	606	22.1
105	Diarrhoea and enteritis (under 2 years).....	1,614	59.1
105a	Chronic diarrhoea (under 2 years).....	21	.7
106	Diarrhoea and enteritis (2 years and over).....	554	20.2
107	Intestinal parasites.....	3	.1
108	Hernia and intestinal obstruction.....	300	10.9
109	Other diseases of the intestines.....	112	4.1
110	Acute yellow atrophy of the liver.....	11	.4
111	Hydatid tumors of the liver.....	..	..
112	Cirrhosis of the liver.....	247	9.0
113	Biliary calculi.....	81	2.9
114	Other diseases of the liver.....	179	6.5
115	Diseases of the spleen.....	5	.1
116	Simple peritonitis (non-puerperal).....	99	3.6
117	Other diseases of the digestive system (cancer and tuberculosis excepted).....	5	.1
118	Appendicitis and abscess of the iliac fossae.....	248	9.0
VI. DISEASES OF THE GENITO-URINARY SYSTEM.			
119	Acute nephritis.....	234	8.5
120	Bright's disease.....	1,420	52.0
121	Other diseases of the kidneys and their adnexa.....	65	2.3
122	Calculi of the urinary tract.....	9	.3
123	Diseases of the bladder.....	126	4.6
124	Diseases of the urethra, urinary abscess, etc.....	11	.4
125	Diseases of the prostate.....	79	2.8
126	Non-venereal diseases of the male genital organs.....	2	.07
127	Metritis.....	7	.2
128	Uterine hemorrhage (non-puerperal).....	7	.2
129	Uterine tumor (non-cancerous).....	33	1.2
130	Other diseases of the uterus.....	23	.8
131	Cysts and other tumors of the ovary.....	35	1.2
132	Other diseases of the female genital organs.....	45	1.6
133	Non-puerperal diseases of the breast (cancer excepted).....	..	..
VII. PUERPERAL DISEASES.			
134	Accidents of pregnancy.....	40	1.4
135	Puerperal hemorrhage.....	24	.8
136	Other accidents of labor.....	18	.6
137	Puerperal septicemia.....	163	5.9

TABLE No. 1—Continued.

Classification Number.	CAUSES OF DEATH.	Number of Deaths.	Death Rate Per 100,000.
	<i>C.—Homicides.</i>		
176a	Homicide.....	122	4.4
176b	Mob violence.....		
	<i>XIV. CAUSES ILL-DEFINED.</i>		
177	Droopy.....	40	1.4
178	Sudden death.....	4	.1
179	Unspecified or ill-defined causes of death.....	147	5.3
	<i>XV. STILLBIRTHS.</i>		
180	Stillbirths.....	2,029	74.3
	All causes.....	36,224	1,326.8

TABLE No. 2.

Deaths from all Causes, by Months, Ages, Nationality and Conjugal Condition, for the Year Ending December 31, 1908, International Classification.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
I. GENERAL DECREASE. EPIDEMIC.												
1. Typhoid fever.....	50	49	49	38	32	32	63	93	121	150	121	87
2. Exanthematus typhus.....												
3. Recurrent fever.....												
4. Intermitent and malarial fever.....	2	3	4	5	7	8	9	6	16	11	7	3
5. Varola or smallpox.....	4	1	2	2		3						2
6. Measles.....	8	57	52	47	24	11	2	2	1	4		1
7. Scarlatina.....	13	17	10	15	5	5	4	1	6	4	5	10
8. Whooping cough.....	16	29	44	68	60	37	47	46	29	9	25	16
9. Croup.....	1	1	3	2	2	1	1		1	1	2	2
9a. Diphtheria.....	40	27	21	10	10	7	10	13	31	43	45	43
10. Influenza.....	172	316	167	70	40	13	9	14	5	4	22	35
11. Miliary fever.....												
12. Asiatic cholera.....						1	1	7	5	3		
13. Cholera nostras.....						18	45	70	45	26	8	7
14. Dysentery.....	4	3	3	3								
15. Bubonic plague.....												
16. Yellow fever.....												
17. Leprosy.....												
18. Erysipelas.....	11	11	10	9	7	3	3	3	2	6	7	9
19. Other epidemic diseases.....		1										
20. Purulent septicemia and infection.....												
21. Glanders and farcy.....	11	12	13	10	9	9	6	4	5	6	7	3
22. Malignant pustule and anthrax.....					1							
23. Rabies.....			1							1	3	1
24. Actinomycosis trichinosis, etc.....							1		1			
25. Pellagra.....												
26. Tuberculosis of the larynx.....	8	4	6	4	6	3		3	1			4
27. Tuberculosis of the lungs.....	350	309	374	375	343	315	299	294	277	271	283	263

28. Tuberculosis of the meninges.....	21	24	19	22	18	11	18	15	15	14	12	16
29. Abdominal tuberculosis.....	10	18	20	23	18	23	24	22	28	20	23	18
30. Pott's disease.....		1	4	4	2	3	2	3	3	2	3	2
31. Cold abscess.....												
32. White swelling.....	1	6		5		1	3	4	3	2	3	2
33. Tuberculosis of other organs.....	4	7	8	4	17	5	4	5	5	1	6	4
34. General tuberculosis.....	8	6	6	9	9	11	5	8	9	7	4	9
35. Scrofula.....	1	3	1	2		1		1	1	2		1
36. Syphilis.....	5	11	12	8	9	9	14	20	13	9	13	14
36a. Soft cancer.....												
37. Gonorrhea (5 years and over).....					1	1	1	1	1			
38. Gonorrhea (under 5 years).....			1	1					1			
39. Cancer and other malignant tumors of the buccal cavity.....	9	6	5	6	4	7	7	7	11	5	6	4
40. Cancer and other malignant tumors of the stomach and liver.....	43	56	51	62	56	53	68	66	62	73	57	50
41. Cancer and other malignant tumors of the peritoneum, intestines and rectum.....	10	15	5	13	11	15	24	12	10	15	8	11
42. Cancer and other malignant tumors of the female genital organs.....	17	24	13	33	28	35	26	23	25	24	23	20
43. Cancer and other malignant tumors of the breast.....	8	12	15	16	14	9	15	9	13	14	17	14
44. Cancer and other malignant tumors of the skin.....	11	8	9	10	14	9	18	9	16	17	8	12
45. Cancer and other malignant tumors of other organs.....	19	13	22	22	26	13	13	24	18	23	18	18
46. Other tumors.....	2	4	1	1	2	3	2		1	1	5	1
47. Acute articular rheumatism.....	7	5	7	13	6	8	9	3	1	6	6	9
48. Chronic rheumatism and gout.....	7	7	6	6	10	9	11	2	6	11	12	7
49. Scurvy.....												
50. Diabetes.....	24	30	20	25	13	18	30	23	21	32	31	23
51. Exophthalmic goitre.....	3	8		1	1	2		1	2	2	1	4
52. Addison's disease.....			1	1		3	2	1	1			
53. Leukemia.....	5	2	2	3	5	2	3	6	3	5	5	4
54. Anemia, chlorosis.....	10	5	6	7	7	11	6	4	7	8	8	
55. Other general diseases.....	55	6	2	1	4	1	3	3	1	4	1	
56. Alcoholism, acute and chronic.....	6	2	1	2	4	1	1	6	11	7	7	
57. Chronic lead poisoning.....	6	4	7	6	6	6	11	6	11	7	7	
58. Other chronic poisonings (occupational).....	1											
59. Other chronic poisonings.....			1							1		
II. DISEASES OF THE NERVOUS SYSTEM AND THE ORGANS OF SPECIAL SENSE.												
60. Euccephalitis.....			5	5	9	6	3	4	2	4	3	3
61. Simple meningitis.....	4	7										
61a. Epidemic cerebro-spinal meningitis.....	34	26	28	34	28	16	21	21	6	16	21	13
62. Progressive locomotor ataxia.....	6	19	17	17	10	11	19	9	16	15	8	7
63. Other diseases of the spinal cord.....	3	4	3	5	4	5	5	5	8	4	7	3
64. Congestion and hemorrhage of the brain.....	13	17	17	15	12	9	16	15	11	17	19	12
65. Softening of the brain.....												
66. Paralysis, cause unspecified.....	158	121	147	143	144	135	138	139	141	132	138	169
	8	6	8	7	14	10	8	6	10	10	9	6
	73	46	53	50	41	20	18	20	26	15	21	13

TABLE No. 2—Continued.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
67. General paralysis.....	14	16	22	19	13	16	23	18	15	12	12	17
68. Other forms of insanity.....	8	12	2	7	7	8	10	10	11	6	8	8
69. Epilepsy.....	16	13	13	16	8	17	16	10	8	12	9	7
70. Convulsions (non-puerperal; 5 years and over).....	2	3	1	1	1	1	1	1	1	1	2	5
71. Convulsions (under 5 years).....	8	19	10	13	8	14	14	9	5	5	4	5
72. Tetanus.....	2	2	5	1	9	2	7	6	13	2	1	2
73. Chorea.....	2	1	1	1	2	1	1	1	1	1	1	3
74a. Other diseases of the brain.....	16	10	8	9	6	5	4	6	5	9	3	9
74b. Other diseases of the nervous system.....	1	13	8	3	4	3	3	1	6	3	5	3
75. Diseases of the eye and its adnexa.....	1	1	1	3	2	1	1	1	1	1	1	3
76. Diseases of the ear.....	1	2	1	3	2	1	1	1	1	1	1	3
III. DISEASES OF THE CIRCULATORY SYSTEM.												
77. Pericarditis.....	1	2	3	5	3	3	6	2	4	7	5	4
78. Acute endocarditis.....	13	28	16	20	11	14	14	13	6	31	23	16
79. Organic diseases of the heart.....	339	360	312	323	291	261	269	268	269	263	317	291
80. Angina pectoris.....	17	35	25	19	31	16	21	21	20	30	36	26
81. Diseases of the arteries, atheroma, aneurism.....	23	31	26	25	22	26	37	31	23	31	27	31
82. Embolism and thrombosis.....	3	7	6	7	4	1	5	7	9	7	4	10
83. Diseases of the veins (varices, hemorrhoids, phlebitis, etc.).....	1	1	2	3	2	1	2	2	1	1	2	1
84. Diseases of the lymphatic system (lymphangitis, etc.).....	5	5	6	3	5	2	3	4	1	1	1	5
85. Hemorrhages.....	1	1	1	1	1	1	1	1	1	1	1	1
86. Other diseases of the circulatory system.....	1	1	1	1	1	1	1	1	1	1	1	1
IV. DISEASES OF THE RESPIRATORY SYSTEM.												
87. Diseases of the nasal fossae.....	11	4	6	1	4	1	2	2	1	4	1	1
88. Diseases of the larynx.....	2	4	4	1	1	1	1	1	1	4	3	3
89. Diseases of the thyroid body.....	32	45	26	32	18	9	4	8	2	17	16	37
90. Acute bronchitis.....	25	23	30	20	13	9	13	13	12	18	22	15
91. Chronic bronchitis.....	77	94	102	68	42	22	20	19	27	43	75	98
92. Broncho-pneumonia.....	316	343	292	202	108	43	19	25	26	56	113	140
93. Pneumonia.....	5	9	6	6	7	5	2	3	6	1	3	3
94. Pharynx.....	32	27	20	7	16	9	6	8	6	5	7	6
95. Congestion and apoplexy of the lungs.....	1	1	1	1	1	1	1	1	1	1	1	1

96. Gangrene of the lungs.....	6	13	10	4	8	5	3	4	6	7	8	6
97. Asthma.....				1	1				2	1	1	1
98. Pulmonary emphysema.....	9	5	7	4	9		2	4	7	6	2	4
99. Other diseases of the respiratory system (phtisae excepted).....												
DISEASES OF THE DIGESTIVE SYSTEM.												
100. Diseases of the mouth and adnexa.....		1	1	2	1	1	1	4	5	5	3	1
101. Diseases of the pharynx.....	4	2	4	6	2		1	3	1			6
102. Diseases of the esophagus.....												1
103. Ulcer of the stomach.....	6	9	4	5	9	4	10	5	9	3	7	10
104. Other diseases of the stomach (cancer excepted).....	44	31	41	45	47	49	70	66	57	62	54	40
105. Diarrhoea and enteritis (under 2 years).....	39	33	34	48	38	59	319	417	288	199	80	30
105a. Chronic diarrhoea (under 2 years).....												3
106. Diarrhoea and enteritis (2 years and over).....	34	23	33	25	37	38	70	82	93	57	42	21
107. Intestinal parasites.....			1	1						1		
108. Hernia and intestinal obstruction.....	33	17	22	26	29	24	19	30	33	23	22	23
109. Other diseases of the intestines.....	7	7	8	7	9	14	9	15	8	12	8	8
110. Acute yellow atrophy of the liver.....	1	1	2	1				1	1	1		2
111. Hydatid tumors of the liver.....												
112. Cirrhosis of the liver.....	15	18	21	22	24	23	28	20	22	20	16	18
113. Biliary calculi.....	5	6	9	4	10	5	12	7	6	4	5	8
114. Other diseases of the liver.....	18	15	12	21	10	16	9	14	18	17	10	19
115. Diseases of the spleen.....	1				1					2		1
116. Simple peritonitis (non-puerperal).....	16	16	13	11	11	9	4	8	3	5	1	2
117. Other diseases of the digestive system (cancer and tuberculous excepted).....												
118. Appendicitis and abscess of the iliac fossae.....	12	18	15	17	17	24	28	29	24	26	27	11
VI. DISEASES OF THE GENITO-URINARY SYSTEM.												
119. Acute nephritis.....	22	18	17	18	27	17	14	20	14	27	17	14
120. Bright's disease.....	141	117	112	134	125	109	119	99	94	105	137	127
121. Other diseases of the kidneys and their adnexa.....	5	9	6	3	5	7	2	3	6	7	2	8
122. Calculi of the urinary tract.....		1				2	3	1				
123. Diseases of the bladder.....	14	9	15	13	10	11	10	6	9	12	11	6
124. Diseases of the urethra, urinary abscess, etc.....	1	3			1			2		1		3
125. Diseases of the prostate.....	4	6	7	9	9	8	6	5	5	7	3	7
126. Non-venereal diseases of the male genital organs.....		1					1					
127. Mercuritis.....			3	1						1		2
128. Uterine hemorrhage (non-puerperal).....		1		2			1				2	1
129. Uterine tumor (non-cancerous).....	2	2	1	4	2	5	1	5	2	3	2	3
130. Other diseases of the uterus.....	2	2	1	1	2	2	2	2	4	2	1	1
131. Cysts and other tumors of the ovary.....		4	4	3	5	4	1	3		4	1	6
132. Other diseases of the female genital organs.....			4	4	6	4	3	5		7	2	4
133. Non-puerperal diseases of the breast (cancer excepted).....	3								3			

TABLE No. 2—Continued.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
VII. PUERPERAL DISEASES.												
134. Accidents of pregnancy.....	3	3	7	2	3	2	6	5	2	3	2	2
135. Puerperal hemorrhage.....	.....	2	3	1	2	3	3	2	2	2	.....	3
136. Other accidents of labor.....	4	3	3	3	2	1	1	3	.....	.....	1	1
137. Puerperal septicemia.....	14	15	22	19	8	10	15	7	11	14	14	14
138. Puerperal albuminuria and convulsions.....	3	1	4	8	6	5	7	5	9	3	6	4
139. Puerperal alba dolens (puerperal).....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
140. Other puerperal accidents—mild death.....	1	3	1	1	4	2	1	1	1	3	1	3
141. Puerperal diseases of the breast.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
VIII. DISEASES OF THE SKIN AND CELLULAR TISSUES.												
142. Gangrene.....	12	11	7	9	13	8	6	8	11	8	10	4
143. Carbuncle.....	.....	1	1	4	3	.....	2	.....	.....	.....	.....	2
144. Acute abscess, phlegmon.....	4	2	1	.....	4	.....	4	2	.....	3	5	2
145. Other diseases of the skin and its adnexa.....	2	2	3	3	3	.....	2	2	3	5	4	1
IX. DISEASES OF THE LOCOMOTOR SYSTEM.												
146. Non-tuberculous diseases of the bones.....	7	4	4	2	7	7	4	3	5	7	6	4
147. Arthritis and other diseases of the joints (tuberculosis and rheumatism excepted).....	.....	1	.....	.....	.....	.....	.....	.....	1	1	.....	1
148. Amputation.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
149. Other diseases of the organs of locomotion.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
X. MALFORMATIONS.												
150. Malformations.....	30	26	32	27	27	26	32	22	29	26	30	37
XI. DISEASES OF INFANCY.												
151. Congenital debility, icterus, scelerema.....	143	126	199	180	112	116	128	127	121	114	99	112
152. Other diseases peculiar to early infancy.....	8	15	7	6	7	7	13	4	10	7	4	14
153. Lack of care.....	4	3	2	1	2	3	4	0	8	6	0	.....
XII. DISEASES OF OLD AGE.												
154. Senile debility.....	83	101	96	67	63	65	32	31	32	29	25	.....

XIII. External Causes.

A. *Suicides.*

155. Suicide by poison.....	10	9	14	10	21	17	8	14	16	15	12	19
156. Asphyxia.....	2	1	1	2	1	5	3	2	4	3	1	2
157. Hanging or strangulation.....	1	2	2	1	8	2	2	6	4	3	1	3
158. Drowning.....	3	9	8	8	10	9	12	8	14	9	2	5
159. Firearms.....	8	9	8	8	10	9	12	8	14	9	12	5
160. Cutting instruments.....	2	3	2	1	1	2	1	1	2	1	1	1
161. Jumping from high places.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
162. Crushing.....	.....	.....	2	2	1	1	1	.....	.....	1	.....	.....
163. Other suicides.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1

B. *Accidents.*

164. Fractures.....	2	1	3	6	4	1	1	1	1	.....	.....	2
165. Dislocations.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
166. Accidental gunshot wounds.....	9	4	3	2	3	4	4	9	5	8	9	1
166a. Injuries by machinery.....	2	3	2	2	3	1	2	1	0	4	3	1
166b. Injuries in mines and quarries.....	7	6	6	3	2	1	3	1	4	4	3	3
166d. Railroad accidents and injuries.....	38	35	27	29	42	24	50	44	48	27	33	26
166e. Injuries by horses and vehicles.....	8	4	5	2	9	13	13	13	20	10	14	6
166f. Other accidental traumatisms.....	29	30	39	27	40	28	38	36	57	33	46	41
167. Burns and scalds.....	31	13	9	17	21	8	13	12	13	29	21	19
168. Burns from corrosive substances.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....

169. Sunstroke.....	2	2	1	.....	.....	10	9	5	2	.....	.....	3
170. Freezing.....	1	2	6	1	5	6	7	5	2	1	1	2
171. Electric shock.....	4	4	8	14	23	35	31	34	2	8	1	2
172. Accidental drowning.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
173. Insanition (starvation).....	1	1	.....	1	.....	3	2	4	1	.....	2	.....
174. Absorption of infectious gases (non-suicidal).....	4	7	3	7	3	4	4	2	2	6	1	.....
175. Other acute poisonings.....	3	11	3	6	6	7	4	6	7	10	4	6
176. Other external violence.....	20	16	20	19	13	17	21	24	15	18	22	25

C. *Homicides.*

176a. Homicides.....	7	8	5	10	25	8	8	12	18	5	9	7
176b. Mob violence.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

XIV. Causes Ill-Defined.

177. Dropsy.....	7	6	5	10	6	1	1	1	2	1	.....	.....
178. Sudden death.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
179. Unspecified or ill-defined causes of death.....	14	29	21	13	13	5	9	11	6	7	5	14
180. Stillbirths.....	187	188	200	190	161	146	159	179	145	154	163	158

XV. *Stillbirths.*

Grand total.....	3,388	3,594	3,889	3,153	2,896	2,547	2,968	3,068	2,897	2,869	2,792	2,714
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TABLE No. 2—Continued.

Deaths from all Causes, by Months, Ages, Nationality and Conjugal Condition, for the Year Ending December 31, 1908, International Classification.

	0	1	2	3	4	5	10	15	20	25	30	35	40	45	50	55	60	65	70
I. GENERAL DISEASES—EPIDEMIC.																			
1. Typhoid fever.....	11	10	19	19	12	45	72	105	131	98	76	57	45	40	41	29	28	17	
2. Exanthematic typhus.....																			
3. Recurrent fever.....																			
4. Intermittent and malarial fever.....	10	6	2		2	5	4	3	6	3	3	1	4	4	1	4	5	5	
5. Variola or smallpox.....	3									1		2	2						
6. Measles.....	50	29	13	14	8	26	9	16	5	8	4	7	5	3	5			1	
7. Scarlatina.....	4	8	17	12	10	22	9	5	2	4	2								
8. Whooping cough.....	260	85	40	15	7	17		2											
9. Croup.....	3	1	3	3	4	3				1									
9a. Diphtheria.....	18	42	51	33	19	87	23	9	3	3	3	3				1	1		
10. Influenza.....	32	11	10	6	1	10	10	16	13	11	15	24	21	30	37	34	50	86	
11. Miliary fever.....																			
12. Asiatic cholera.....																			
13. Cholera nostras.....				1	3	2	1	2	5	5	3		3	5	4	10	16	28	
14. Dysentery.....			19	3															
15. Bubonic plague.....																			
16. Yellow fever.....																			
17. Lervey.....																			
18. Erysipelas.....	20	2			1	1	1	3	2	2	2	2	5	2	7	7	2	4	
19. Other epidemic diseases.....																			
20. Purulent septicaemia and infection.....	9				1	5	5	4	3	7	3	3	5	6	8	4	3	5	
21. Glanders and farcy.....																			
22. Malignant pustule and anthrax.....																			
23. Rabies.....																			
24. Actinomycosis trichinosis, etc.....																			

25. Pellets.....	1	27	15	7	1	1	1	1	3	9	5	5	3	3	199	165	5	3
26. Tuberculosis of the larynx.....	77	42	12	10	6	23	61	347	561	386	311	273	217	185	3	165	166	3
27. Tuberculosis of the lungs.....	50	13	1	1	2	24	13	10	4	4	3	2	6	5	3	2	1	1
28. Tuberculosis of the meninges.....	11	13	1	1	1	3	11	25	17	14	19	21	15	24	7	16	18	18
29. Abdominal tuberculosis.....	1	1	1	1	2	1	5	3	2	1	2	1	4	2	1	...	...	1
30. Post's disease.....	1	1	1	1	2	1	5	3	2	1	2	1	4	2	1	...	...	1
31. Cold abscess.....	1	1	1	1	1	1	3	2	4	1	1	3	3	3	2	...	...	1
32. White swelling.....	2	2	1	1	1	1	3	5	5	5	4	6	1	4	8	5	4	3
33. Tuberculosis of other organs.....	10	1	1	1	1	2	3	7	15	8	8	7	5	4	4	2	4	4
34. General tuberculosis.....	6	1	1	2	2	1	1	2	2	8	4	5	11	9	8	5	3	2
35. Scrofula.....	67	5	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	4
36. Syphilis.....	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
37. Soft cancer.....	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
38. Gonorrhea (5 years and over).....	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
39. Gonorrhea (under 5 years).....	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
40. Cancer and other malignant tumors of the buccal cavity.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41. Cancer and other malignant tumors of the stomach and liver.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
42. Cancer and other malignant tumors of the peritoneum, intestines and rectum.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
43. Cancer and other malignant tumors of the female genital organs.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
44. Cancer and other malignant tumors of the breast.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
45. Cancer and other malignant tumors of the skin.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
46. Cancer and other malignant tumors of other organs.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
47. Acute articular rheumatism.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
48. Chronic rheumatism and gout.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
49. Scurvy.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
50. Diabetes.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
51. Exophthalmic goitre.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
52. Addison's disease.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
53. Leukemia.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
54. Anemia, chlorosis.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
55. Other general diseases.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
56. Alcoholism, acute and chronic.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
57. Chronic lead poisoning.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
58. Other chronic poisonings (occupational).....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
59. Other chronic poisonings.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

TABLE No. 2—Continued.

	0	1	2	3	4	5	10	15	20	25	30	35	40	45	50	55	60	65	70	
II. DISEASES OF THE NERVOUS SYSTEM AND THE ORGANS OF SPECIAL SENSE.																				
60. Encephalitis.....	19	5	3		2	5	1	1	1		2	2	2	1	2	4				
61. Simple meningitis.....	87	33	21		8	21	8	13	6		6	6	6	8	5	7		7		
61a. Epidemic cerebro-spinal meningitis.....	45	27	11		9	21	10	5	5		1	1	2		4	4	2			
62. Progressive locomotor ataxia.....	1								1						5	15	4	6		
63. Other diseases of the spinal cord.....	6	4	3	2		5	4	4	1	3	3	3	6	7	13	14	17	20		
64. Congestion and hemorrhage of the brain.....	49	9	5	3		4	4	8	11	10	26	29	36	76	118	130	170	247		
65. Softening of the brain.....															3	6	8	14		
66. Paralysis, cause unspecified.....	3					2	1	1	2	1	2	2	6	1	5	10	24	37	45	
67. General paralysis.....								1	4	1	8	8	14	15	10	9	14	23	28	
68. Other forms of insanity.....							1	2	4	4	5	5	8	10	8	10	11	8		
69. Epilepsy.....		1	2	1	1	2	5	9	17	13	17	15	14	10	7	5	6	7		
70. Convulsions (non-epileptic; 5 years and over).....						2	1		2	1	1	2				1				
71. Convulsions (under 5 years).....	106	2		6																
72. Tetanus.....	26	1			1	7	6	1	1	2	3	3	3	1	2	1	2	1		
73. Chorea.....			1				4	1	1						3					
74a. Other diseases of the brain.....	6	6		1		4	1	4	2	9	3	5	5	9	5	3	4	4		
74b. Other diseases of the nervous system.....	1	1				2	1	4	2			2	2	3	8	6	6	5		
75. Diseases of the eye and its adnexa.....																				
76. Diseases of the ear.....	2		1			2	3		3	1	1	1	2				1	1		
III. DISEASES OF THE CIRCULATORY SYSTEM.																				
77. Pericarditis.....	2					1	2		2	1	1	1	0	5	1	2	4	2	9	
78. Acute endocarditis.....	5		2		1	4	8	7	4	3	9	5	5	7	15	12	18	17		
79. Organic disease of the heart.....	47	1	2	2	8	26	45	30	42	51	72	98	101	161	219	253	403	476		
80. Angina pectoris.....									2	4	6	3	5	16	15	26	34	47		
81. Diseases of the arteries, atheroma, aneurism, etc.....							1	1	1	2	1	4	6	6	3	26	17	36		
82. Embolism and thrombosis.....	1		2			1	1	3	3	3	1	1	4	4	2	8	6	6		
83. Diseases of the veins (varicos, hemorrhoids, phlebitis, etc.....)																				
84. Diseases of the lymphatic system (lymphangitis, etc.).....		2				1	1	1	1				1		1		1	2		

TABLE No. 2—Continued.

	0	1	2	3	4	5	10	15	20	25	30	35	40	45	50	55	60	65
VI. DISEASES OF THE GENITO-URINARY SYSTEM.																		
119. Acute nephritis.....	19	10	3	3		8	4	3	8	16	10	15	7	15	13	15	15	12
120. Bright's disease.....	11						5	18	20	25	37	47	57	72	109	99	138	167
121. Other diseases of the kidneys and their adnexa.....	10	1				1			1	2	1	2	3	4	4	1	5	6
122. Calculi of the urinary tract.....											2	7	1	2	1	3	1	7
123. Diseases of the bladder.....	3								1	2	3					3	5	17
124. Diseases of the urethra, urinary abscess, etc.....													1	2	2	3		
125. Diseases of the prostate.....													2		2	4	9	
126. Non-venereal diseases of the male genital organs.....													1					1
127. Metritis.....								2		1	3	1						
128. Uterine hemorrhage (non-puerperal).....							1	1	2	2	1	1						
129. Uterine tumor (non-cancerous).....																		
130. Other diseases of the uterus.....									1	2	5	5	6	7	3	3	3	1
131. Cysts and other tumors of the ovary.....									2	3	2	2	4	3	2	1	1	2
132. Other diseases of the female genital organs.....								1	8	9	10	9	5	1	2			4
133. Non-puerperal diseases of the breast (cancer excepted).....																		
VII. PUERPERAL DISEASES.																		
134. Accidents of pregnancy.....								2	5	10	10	10	3					
135. Puerperal hemorrhage.....								4	4	5	5	5	4					
136. Other accidents of labor.....																		
137. Puerperal septicemia.....							1	11	40	42	36	13	15	4	1		1	
138. Puerperal albuminuria and convulsions.....								8	16	14	12	4	4	2				
139. Puerperal alba dolens (puerperal).....												1	4					
140. Other puerperal accidents—sudden death.....								1	4	2	5	6	4					
141. Puerperal diseases of the breast.....																		
VIII. DISEASES OF THE SKIN AND CELLULAR TUMORS.																		
142. Gangrene.....	1					1			1	1	1	2	2	1	5	3	92	8
143. Carbuncle.....															1	4	1	

TABLE No. 2—Continued.

	0	1	2	3	4	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70
166f. Other accidental traumas.	7	4	5	3	5	20	15	15	24	20	16	13	22	16	22	17	22	29
167. Burns and scalds.	9	13	24	23	13	19	9	9	8	10	8	11	7	5	6	9	6	7
168. Burns from corrosive substances.	1						1											
169. Sunstroke.	2							1		2	1	1	2	3		4	3	1
170. Freezing.									1					1			3	
171. Electric shock.						1	2	5	11	6	6	1	2	1		1		1
172. Accidental drowning.	2	3	9	2	2	15	28	25	27	11	12	3	10	3	2	2	2	2
173. Inanition (starvation).	3	2		1														2
174. Absorption of deleterious gases (non-suicidal).	7	18	7	1		2	1	3	2	2	3	2	5	3	2	3	1	3
175. Other acute poisonings.						5	1		1	2	4	3	1	3	4	3	1	3
176. Other external violence.	186	7	4	2		3	5	1		4				1	3			
C.—Homicide.																		
176a. Homicide.	3				1	1	1	10	22	13	15	13	6	17	5	3	3	3
176b. Mob violence.																		
XIV. CAUSES IL-DEFINED.																		
177. Dropsy.								1	1	1	1	4	1	2		4	3	6
178. Sudden death.																1	1	
179. Unspecified or ill-defined causes of death.	73	3		2	1		1		6	2	4	1	6		6	5	8	7
XV. STILLBIRTHS.																		
180. Stillbirths.	2,029																	
Grand total.	7,714	1,123	533	292	196	673	585	1,018	1,405	1,318	1,265	1,373	1,326	1,410	1,568	1,792	2,040	2,450

TABLE No. 2—Continued.

Deaths from all Causes, by Months, Ages, Nationality and Conjugal Condition, for the Year Ending December 1, 1908, International Classification.

	70 to 75	75 to 80	80 to 90	90 and over.	Unknown.	White.	Colored.	American.	Foreign.	N. R.	Single.	Married.	Widowed.	N. R.	Total
I. GENERAL DISEASES—ERYSIPLAS.															
1. Typhoid fever.....	15	11	4	1	1	859	26	810	60	15	451	378	52	4	885
2. Erythema multiforme.....															
3. Recurrent fever.....	5	2	8			78	5	72	9	2	33	37	13		83
4. Intermittent and malarial fever.....	1	1				9	1	6	2	2	4	4	2		10
5. Variola or smallpox.....															
6. Measles.....	3	1			2	207	2	207		2	108	31	9	1	209
7. Scarlatina.....						94	1	93	2		90	5			95
8. Whooping cough.....						385	31	416			416				416
9. Croup.....						18		18			17	1			18
10. Diphtheria.....					1	291	6	289	6	2	286	11			297
11. Influenza.....	115	131	182	21	1	889	28	717	131	19	164	347	353	3	867
12. Miliary fever.....															
13. Asiatic cholera.....	3	1	3			18		12	5	1	4	7	7		18
14. Cholera nostras.....	19	42	56	10	1	241	4	200	32	13	56	71	117	1	245
15. Dysentery.....															
16. Bubonic plague.....															
17. Yellow fever.....															
18. Leprosy.....															
19. Erysipelas.....	8	9	8	1		82	4	73	10	3	34	28	23	1	86
20. Other epidemic diseases.....						1		1					1		1
21. Purulent septicaemia and infection.....	9	6	8	1		92	3	78	16	1	32	51	11	1	95
22. Glanders and farcy.....															
23. Malignant pustule and anthrax.....						2		2				2			2
24. Rabies.....						5		4		1	5				5
25. Actinomycosis trichinosis, etc.....						2		1				1			1

TABLE No. 2—Continued.

	70 to 75	75 to 80	80 to 90	90 and over	Unknown	White	Colored	American	Foreign	N. R.	Single	Married	Widowed	N. R.	Total
25. Pellagra.....	3	3	2	1	5	46	2	39	9	.....	12	26	9	1	48
26. Tuberculosis of the larynx.....	136	73	40	3	5	3,503	274	3,454	242	81	1,398	1,932	491	88	3,777
27. Tuberculosis of the lungs.....	15	8	3	2	1	193	12	199	4	2	176	25	4	.....	205
28. Tuberculosis of the meninges.....	.....	.....	.....	.....	.....	257	18	260	22	3	103	118	47	7	275
29. Abdominal tuberculosis.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
30. Pott's disease.....	.....	.....	.....	.....	.....	27	2	27	2	.....	21	6	2	.....	29
31. Cold abscess.....	.....	.....	.....	.....	.....	2	.....	2	.....	.....	1	.....	.....	.....	2
32. White swelling.....	2	2	1	.....	.....	27	3	27	3	.....	15	9	4	.....	30
33. Tuberculosis of other organs.....	4	3	1	.....	.....	64	6	66	3	1	22	40	7	1	70
34. General tuberculosis.....	3	2	.....	.....	.....	86	5	86	5	.....	46	38	7	.....	91
35. Scrofula.....	.....	.....	.....	.....	.....	11	2	13	.....	.....	10	2	1	.....	13
36. Syphilis.....	.....	.....	.....	.....	.....	117	20	128	7	2	99	18	20	.....	137
37. Soft cancer.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
38. Gonorrhea (5 years and over).....	.....	.....	.....	.....	.....	4	.....	4	.....	.....	1	.....	.....	.....	4
39. Gonorrhea (under 5 years).....	.....	.....	.....	.....	.....	3	.....	3	.....	.....	3	.....	.....	.....	3
40. Cancer and other malignant tumors of the buccal cavity.....	5	14	5	1	.....	76	1	61	14	2	7	47	21	2	77
41. Cancer and other malignant tumors of the stomach and liver.....	102	61	44	.....	.....	680	6	554	132	10	44	436	209	7	966
42. Cancer and other malignant tumors of the peritoneum, intestines and rectum.....	17	9	6	.....	1	145	4	124	25	.....	15	88	45	1	149
43. Cancer and other malignant tumors of the female genital organs.....	21	10	3	.....	.....	275	16	257	23	2	17	194	89	1	291
44. Cancer and other malignant tumors of the breast.....	8	16	10	1	.....	156	.....	139	16	1	17	93	46	.....	156
45. Cancer and other malignant tumors of the skin.....	21	19	23	6	.....	139	2	122	19	.....	6	76	58	1	141
46. Cancer and other malignant tumors of other organs.....	24	20	14	1	.....	226	3	192	34	3	30	142	56	1	229
47. Other tumors.....	5	3	1	.....	.....	23	1	23	.....	.....	.....	15	5	.....	23
48. Acute articular rheumatism.....	11	6	.....	1	.....	70	1	66	11	3	29	36	15	.....	80
49. Chronic rheumatism and gout.....	14	11	15	2	.....	92	2	79	10	5	.....	41	42	2	94
50. Scoury.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	1	.....	.....	.....	1
51. Diabetes.....	22	13	19	.....	1	278	12	247	26	5	54	168	64	4	290
52. Epithelioma of the penis.....	.....	1	.....	.....	.....	25	.....	22	3	.....	5	16	5	.....	25
53. Addison's disease.....	.....	.....	.....	.....	.....	.....	.....	7	2	.....	1	.....	.....	.....	9
54. Leukemia.....	4	2	2	.....	.....	44	1	43	3	.....	14	26	5	.....	45

54. Anemia, chlorosis.....	9	5	4	.....	54	2	79	7	.....	51	16	.....
55. All other general diseases.....	4	.....	.....	.....	28	.....	25	2	1	14	.....	.....
56. Alcoholism, acute and chronic.....	1	.....	4	.....	81	2	66	9	8	20	20	4
57. Chronic lead poisoning.....	.....	.....	.....	.....	3	.....	2	.....	.....	2	.....	.....
58. Other chronic poisonings (occupational).....	.....	.....	.....	.....	38	.....	.....	2	.....	.....	.....	.....
59. Other chronic poisonings.....	.....	.....	.....	.....	10	.....	9	1	.....	6	1	.....
II. DISEASES OF THE NERVOUS SYSTEM AND THE ORGANS OF SPECIAL SENSE.												
60. Encephalitis.....	4	1	1	.....	54	1	53	2	.....	12	5	.....
61. Simple meningitis.....	1	3	5	.....	258	6	253	11	.....	207	46	7
62. Epidemic cerebro-spinal meningitis.....	1	.....	.....	.....	150	4	153	.....	.....	138	7	1
63. Progressive locomotor ataxia.....	4	2	1	.....	56	.....	47	7	2	6	13	2
64. Other diseases of the spinal cord.....	21	18	16	.....	188	5	157	15	1	38	56	3
65. Congestion and hemorrhage of the brain.....	255	230	246	25	4	1,653	42	1,304	265	36	281	22
66. Softening of the brain.....	22	17	19	2	.....	95	3	85	12	1	98	.....
67. Paralysis, cause unspecified.....	80	74	85	12	2	391	8	332	54	13	41	24
68. General paralysis.....	25	34	26	1	1	190	5	168	24	3	31	178
69. Other forms of insanity.....	4	9	8	1	1	95	2	74	14	9	20	59
70. Epilepsy.....	5	4	3	1	.....	142	3	133	4	8	41	26
71. Convulsions (non-puerperal; 5 years and over).....	1	.....	.....	.....	10	1	11	.....	.....	6	15	1
72. Convulsions (under 5 years).....	.....	.....	.....	.....	107	7	114	.....	.....	114	4	.....
73. Tetanus.....	1	.....	.....	.....	57	3	58	2	.....	60	13	2
74. Chorea.....	.....	.....	.....	.....	11	.....	11	.....	.....	45	3	.....
75. Other diseases of the brain.....	7	4	5	2	1	87	3	76	13	2	12	.....
76. Other diseases of the nervous system.....	5	3	8	1	.....	56	3	55	3	1	33	41
77. Diseases of the eye and its adnexa.....	1	.....	.....	.....	4	.....	.....	4	.....	1	18	.....
78. Diseases of the ear.....	1	1	.....	.....	14	.....	.....	12	2	.....	5	1
III. DISEASES OF THE CIRCULATORY SYSTEM.												
79. Pericarditis.....	3	2	3	.....	43	3	38	5	3	6	28	11
80. Acute endocarditis.....	23	21	25	4	.....	8	157	35	5	48	59	57
81. Organic diseases of the heart.....	550	481	423	42	12	3,398	136	2,916	511	107	1,286	36
82. Angina pectoris.....	40	27	26	1	1	261	2	216	44	3	170	75
83. Diseases of the arteries, atheroma, aneurism.....	43	66	104	14	.....	324	9	259	90	4	16	141
84. Embolism and thrombosis.....	9	9	1	1	.....	98	2	61	9	.....	23	164
85. Diseases of the veins (varices, hemorrhoids, phlebitis, etc.).....	2	4	2	.....	16	.....	13	3	.....	4	8	4
86. Diseases of the lymphatic system (lymphangitis, etc.).....	.....	.....	.....	.....	4	.....	3	1	.....	3	4	.....
87. Hemorrhages.....	2	1	1	1	.....	22	2	29	4	1	17	7
88. Other diseases of the circulatory system.....	.....	.....	.....	.....	2	.....	2	.....	.....	1	1	.....
IV. DISEASES OF THE RESPIRATORY SYSTEM.												
89. Diseases of the nasal fossae.....	.....	.....	.....	.....	2	1	2	1	.....	2	1	.....
90. Diseases of the larynx.....	.....	1	1	.....	38	1	35	3	.....	1	6	3

TABLE No. 2—Continued.

	70 to 75	75 to 80	80 to 90	90 and over.	Unknown.	White.	Colored.	American.	Foreign.	N. R.	Single.	Married.	Widowed.	N. R.	Total.
89. Diseases of the thyroid body.....						10	9	9		1	4	5	1		10
90. Acute bronchitis.....	17	14	23	4		230	9	215	23		160	26	52	1	239
91. Chronic bronchitis.....	28	36	61	11	1	199	14	142	69	2	19	79	115		213
92. Broncho-pneumonia.....							42	614	56	6	438	114	120	4	676
93. Pneumonia.....	43	54	42	5	1	634		1,592	185	31	705	604	367	17	1,693
94. Pleurisy.....	154	111	143	10	5	1,562	101	1,477	185	5	21	27	8	1	1,571
95. Congestion and apoplexy of the lungs.....	5	5	4		1	54	3	51	5	1	63	29	53	3	148
96. Congestion and apoplexy of the lungs.....	15	15	24	3	1	144	4	124	19	5	63	29	53	3	148
96. Gangrene of the lungs.....															
97. Asthma.....	16	10	17			66	13	65	13	1	11	41	26	1	79
98. Pulmonary emphysema.....						4	1	5	5		1	3	1		5
99. Other diseases of the respiratory system (pneumonia excepted)	5	6	1	2		55	4	50	8	1	15	31	12	1	59
V. DISEASES OF THE DIGESTIVE SYSTEM.															
100. Diseases of the mouth and alveola.....	1		1			24	1	24	1		20	3	2		25
101. Diseases of the pharynx.....			3	1		33	1	34			25	6	3		34
102. Diseases of the esophagus.....						3			1						3
103. Ulcer of the stomach.....	7	4	5	1		79	2	70	8	3	15	41	25		81
104. Other diseases of the stomach (cancer excepted).....	39	55	73	11		585	21	523	68	15	273	165	164	4	606
105. Diarrhoea and enteritis (under 2 years).....						1,580	54	1,607	5	2	1,614				1,614
106a. Chronic diarrhoea (under 2 years).....						21	21	21			21				21
106b. Diarrhoea and enteritis (2 years and over).....	59	60	73	12		533	21	502	44	8	208	199	141	6	592
107. Intestinal parasites.....						3		3			2				3
108. Hernia and intestinal obstruction.....	16	22	15	4		292	8	280	44	6	101	140	57	2	300
109. Other diseases of the intestines.....															
110. Acute yellow atrophy of the liver.....	11	11	9	1		108	4	97	11	4	45	38	31		112
111. Hydatid tumors of the liver.....	1	1	1			11		6	5		1	9	1		11
112. Cirrhosis of the liver.....															
113. Biliary calculi.....	20	12	11	1		237	10	197	40	10	30	149	60	8	247
114. Other diseases of the liver.....	7	4	6			81		72	7	2	11	46	24		81
115. Diseases of the spleen.....	12	14	19	1		173	6	159	15	5	38	92	48	1	179
116. Simple peritonitis (non-puerperal).....	1	1	1			4	1	3	2		2	3	2		5
117. Simple peritonitis (non-puerperal).....	8	3	1			93	6	90	6		38	60	10	1	99

117. Other diseases of the digestive system (cancer and tuberculosis excepted).....
 118. Appendicitis and abscess of the iliac fossa.....

VI. DISEASES OF THE GENITO-URINARY SYSTEM.

119. Acute nephritis.....
 120. Bright's disease.....
 121. Other diseases of the kidneys and their adnexa.....
 122. Calculi of the urinary tract.....
 123. Diseases of the bladder.....
 124. Diseases of the urethra, urinary abscess, etc.....
 125. Diseases of the prostate.....
 126. Non-venereal diseases of the male genital organs.....
 127. Metritis.....
 128. Uterine hemorrhage (non-puerperal).....
 129. Uterine tumor (non-cancerous).....
 130. Other diseases of the uterus.....
 131. Cysts and other tumors of the ovary.....
 132. Other diseases of the female genital organs.....
 133. Non-puerperal diseases of the breast (cancer excepted).....

VII. PUERPERAL DISEASES.

134. Accidents of pregnancy.....
 135. Puerperal hemorrhage.....
 136. Other accidents of labor.....
 137. Puerperal septicæmia.....
 138. Puerperal albuminuria and convulsions.....
 139. Phlegmasia alba dolens (puerperal).....
 140. Other puerperal accidents—sudden death.....
 141. Puerperal diseases of the breast.....

VIII. DISEASES OF THE SKIN AND CELLULAR TISSUES.

142. Gangrene.....
 143. Carbuncle.....
 144. Acute abscess, phlegmon.....
 145. Other diseases of the skin and its adnexa.....

IX. DISEASES OF THE LOCOMOTOR SYSTEM.

146. Non-tuberculous diseases of the bones.....
 147. Arthritis and other diseases of the joints (tuberculosis and rheumatism excepted).....
 148. Amputation.....
 149. Other diseases of the organs of locomotion.....

117.	3	4	5	.....	1	6	245	3	231	5	11	6	131	101	15	1	5	248
118.	24	14	16	4	.....	224	10	201	28	5	77	103	51	3	234	1,420	1,420	1,420
119.	217	108	165	15	.....	1,371	49	1,156	286	28	170	757	483	11	65	65	65	65
120.	7	7	8	2	.....	61	4	57	6	2	17	31	16	1	9	9	9	9
121.	16	14	41	3	.....	9	.....	98	26	2	9	69	46	1	2	126	126	126
122.	2	1	1	1	.....	11	.....	10	.....	1	3	4	3	1	11	11	11	11
123.	16	19	16	3	.....	77	2	61	16	2	4	53	23	.....	2	79	79	79
124.	1	1	1	1	.....	6	1	1	1	.....	2	2	2	.....	2	2	2	2
125.	6	6	6	1	.....	6	1	6	1	.....	2	2	2	.....	4	1	1	1
126.	7	7	7	.....	.....	7	.....	5	2	.....	1	6	1	.....	6	7	7	7
127.	2	2	2	.....	.....	27	6	30	2	1	2	25	5	1	33	33	33	33
128.	6	2	2	.....	.....	21	1	20	2	.....	3	15	4	.....	22	22	22	22
129.	35	3	3	.....	.....	35	.....	30	5	.....	6	18	11	.....	35	35	35	35
130.	43	2	2	.....	.....	43	2	45	.....	.....	7	33	4	1	45	45	45	45
131.	40	.....	.....	.....	.....	40	.....	37	3	.....	1	39	.....	.....	40	40	40	40
132.	23	1	1	.....	.....	23	1	23	1	1	1	23	24	.....	24	24	24	24
133.	17	1	1	.....	.....	17	1	17	1	.....	1	18	18	.....	18	18	18	18
134.	153	10	155	6	.....	153	10	155	6	2	11	144	8	.....	163	163	163	163
135.	58	3	60	1	.....	58	3	60	1	4	4	57	.....	.....	61	61	61	61
136.	1	1	1	.....	.....	1	.....	1	1	.....	1	1	1	.....	1	1	1	1
137.	23	.....	.....	.....	.....	23	.....	20	2	.....	21	21	.....	1	22	22	22	22
138.	1	.....	.....	.....	.....	1	.....	1	.....	.....	1	1	.....	.....	1	1	1	1
139.	103	4	85	18	.....	103	4	85	18	4	6	40	59	2	107	107	107	107
140.	13	13	13	.....	.....	13	13	13	3	.....	3	8	2	.....	13	13	13	13
141.	25	2	24	3	.....	25	2	24	3	.....	10	13	3	1	27	27	27	27
142.	27	3	26	4	.....	27	3	26	4	.....	12	11	6	1	30	30	30	30
143.	54	6	50	7	.....	54	6	50	7	3	43	12	4	1	60	60	60	60
144.	4	.....	.....	.....	.....	4	.....	3	1	.....	1	1	2	.....	4	4	4	4
145.	1	.....	.....	.....	.....	1	.....	1	.....	.....	.....	1	.....	.....	1	1	1	1
146.	2	3	2	.....	.....	2	3	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
147.	2	3	2	.....	.....	2	3	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
148.	1	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
149.	1	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

TABLE No. 2—Continued.

	70 to 75	75 to 80	80 to 90	90 and over	Unknown	White	Colored	American	Foreign	N. R.	Single	Married	Widowed	N. R.	Total
X. MALFORMATIONS.															
150. Malformations.....						340	4	342	1	1	343	1			344
XI. DISEASES OF INFANCY.															
151. Congenital debility, icterus, sclerema.....						1,452	44	1,494	2		1,496				1,496
152. Other diseases peculiar to early infancy.....						90	3	102			102				102
153. Lack of care.....						51	5	56			56				56
XII. DISEASES OF OLD AGE.															
154. Senile debility.....	59	117	330	113	2	625	9	439	172	23	44	146	431	13	634
XIII. EXTERNAL CAUSES.															
A.—Suicide.															
155. Suicide by poison.....	3	3	1		1	183		153	15	10	53	102	27	2	183
156. Epilepsy.....	2					8		5	3		3	3	2		8
157. Hanging or strangulation.....	3	2				36	1	29	6	2	6	28	3		37
158. Drowning.....			1			19		16	2	1	7	8	3	1	19
159. Firearm.....			1		2	112		98	10	4	22	56	21	3	112
160. Cutting instruments.....	1		1			15		13		2		13	2		15
161. Jumping from high places.....					1		1			1				1	1
162. Crushing.....						7		6	1		4	2			7
163. Other suicides.....	1					2		2				1	1		2
B.—Accidents.															
164. Fractures.....	1	5	9	1		21	1	16	5	1	3	3	14	2	22
165. Dislocations.....			1			3		1	2		1		2		3
166. Accidental gunshot wounds.....						60	1	58	3		44	16	1		61
166a. Injuries by machinery.....	1					34		27	3	4	10	22	2		34
166c. Injuries in mines and quarries.....					2	44	2	30	15	1	17	26	2	1	46
166d. Railroad accidents and injuries.....	13	4	10	1	13	440	13	322	74	57	170	189	44	80	453
166e. Injuries by horses and vehicles.....	10	5	3			131	3	115	17	2	43	76	16		134

166f. Other accidental traumas.....	23	54	80	13	2	450	6	375	66	15	134	153	161	8	456
167. Burns and scalds.....	2	1	8	.....	.....	203	3	184	14	8	135	50	18	3	206
168. Burns from corrosive substances.....	.....	.....	.....	.....	.....	2	.....	2	.....	.....	2	.....	.....	.....	2
169. Sunstroke.....	1	1	4	.....	.....	24	2	19	6	1	9	11	5	1	26
170. Freezing.....	1	.....	.....	.....	.....	9	.....	4	2	3	2	5	1	1	9
171. Electric shock.....	.....	.....	.....	.....	.....	40	.....	38	2	.....	21	17	2	.....	40
172. Accidental drowning.....	1	1	1	.....	5	159	7	134	17	15	118	34	2	12	166
173. Inanition (starvation).....	3	4	.....	.....	.....	14	1	14	1	.....	7	3	5	.....	15
174. Absorption of deleterious gases (non-suicidal).....	4	1	2	.....	.....	42	2	34	9	1	17	17	9	1	44
175. Other acute poisonings.....	2	3	1	.....	.....	70	3	65	7	1	46	15	9	3	73
176. Other external violence.....	4	2	3	.....	.....	225	6	224	5	2	210	13	4	4	231
C.—Homicides.															
176a. Homicides.....	.....	.....	.....	.....	7	110	12	89	17	16	38	61	12	11	122
176b. Mob violence.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
XIV. CAUSES ILL-DEFINED.															
177. Dropsy.....	8	1	7	.....	.....	40	.....	35	4	1	4	19	17	.....	40
178. Sudden death.....	.....	1	1	.....	.....	4	.....	4	.....	.....	.....	4	.....	.....	4
179. Unspecified or ill-defined causes of death.....	3	9	8	1	1	139	8	126	9	12	78	39	26	4	147
XV. STILLBIRTHS.															
180. Stillbirths.....	.....	.....	.....	.....	.....	1,950	79	2,029	.....	.....	2,029	.....	.....	.....	2,029
Grand total.....	2,650	2,435	2,776	392	87	34,804	1,420	31,910	3,575	739	15,286	12,136	7,431	372	36,224

TABLE No. 2 A.

*Recapitulation of Table No. 2—Classified Deaths by Months, Ages, Color, Nationality and Conjugal Condition,
Year 1908.*

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
I. General diseases—Epidemic.....	937	1,107	1,008	953	833	735	822	801	834	859	823	765
II. Diseases of the nervous system and organs of special sense.....	376	337	347	350	321	278	296	290	279	267	278	285
III. Diseases of the circulatory system.....	392	454	399	408	359	323	357	347	325	347	404	394
IV. Diseases of the respiratory system.....	515	553	505	346	226	103	72	86	106	157	251	301
V. Diseases of the digestive system.....	235	197	220	242	247	298	584	704	572	448	279	202
VI. Diseases of the genito-urinary system.....	194	173	169	192	192	169	163	166	138	179	178	182
VII. Puerperal diseases.....	26	27	39	34	25	24	33	22	25	25	24	27
VIII. Diseases of the skin and cellular tissues.....	18	16	12	16	23	8	14	12	14	16	19	9
IX. Diseases of the locomotor system.....	7	5	4	2	7	7	5	3	6	8	6	5
X. Malformations.....	30	26	32	27	27	26	32	22	29	26	30	37
XI. Diseases of infancy.....	155	143	168	137	121	126	145	150	139	127	112	131
XII. Diseases of old age.....	83	101	86	67	63	55	32	31	32	29	25	30
XIII. External causes.....	213	172	174	186	242	223	224	251	244	209	196	184
XIV. Causes ill-defined.....	22	35	26	23	19	6	10	14	9	8	5	14
XV. Stillbirths.....	187	188	200	169	161	166	159	170	145	154	163	158
Total.....	3,388	3,594	3,389	3,152	2,866	2,547	2,958	3,068	2,897	2,859	2,792	2,714

TABLE No. 2 A—Continued

	0	1	2	3	4	5	10	15	20	25	30	35	40	45	50	55	60	65	70
I. General diseases—Epidemic.....	661	291	211	133	83	299	266	598	807	733	603	578	525	570	588	633	649	690	
II. Diseases of the nervous system and organs of special sense.....	351	89	52	23	21	77	47	59	90	53	88	91	108	149	217	216	239	280	
III. Diseases of the circulatory system.....	64	3	7	5	9	33	58	53	57	66	95	124	128	189	260	343	452	593	
IV. Diseases of the respiratory system.....	772	189	78	77	23	67	40	54	73	66	71	91	79	102	141	129	151	220	
V. Diseases of the digestive system.....	1,464	453	129	55	23	80	57	53	82	80	70	101	105	132	141	150	161	202	
VI. Diseases of the genito-urinary system.....	43	11	9	8	5	13	9	26	44	60	75	93	92	107	143	137	177	219	
VII. Puerperal diseases.....							1	24	73	76	73	43	30	6	1	13	12	13	
VIII. Diseases of the skin and cellular tissues.....	13	2	2			3	1	4	2	4	3	2	2	2	4	10	1	1	
IX. Diseases of the locomotor system.....	9	5	3	1	1	6	1	1	2	3	3	2	2	2	1	4	1	3	
X. Malformations.....	329	3	3	2	2	1	3			1									
XI. Diseases of infancy.....	1,654																		
XII. Diseases of old age.....																1	2	10	
XIII. External causes.....	222	53	58	36	25	94	98	154	198	177	172	140	144	149	191	130	104	97	
XIV. Causes ill-defined.....	73	3		2	1		1	1	7	3	5	5	7	2	7	10	11	13	
XV. Scurbutus.....	2,029																		
Total.....	7,714	1,132	552	292	196	673	585	1,018	1,405	1,318	1,266	1,272	1,226	1,410	1,583	1,762	2,040	2,450	

TABLE No. 2 A—Continued.

	70 to 75	75 to 80	80 to 90	90 and over	Unknown.	White.	Colored.	American.	Foreign.	N. R.	Single.	Married.	Widowed.	N. R.	Total.
I. General diseases—Epidemic.....	605	480	468	51	15	10,028	508	9,414	932	190	3,973	4,596	1,835	82	10,536
II. Diseases of the nervous system and organs of sense.....	438	400	423	45	10	3,598	96	3,190	428	76	1,036	1,552	1,031	45	3,604
III. Diseases of the circulatory system.....	671	611	596	63	13	4,337	162	3,674	702	123	1,553	2,300	1,599	47	4,499
IV. Diseases of the respiratory system.....	283	252	317	35	9	3,028	193	2,789	382	50	1,469	966	758	28	3,221
V. Diseases of the digestive system.....	185	191	222	32	1	4,090	138	3,896	268	64	2,575	1,046	584	23	4,228
VI. Diseases of the genito-urinary system.....	290	255	252	27	1	2,018	77	1,739	325	41	305	1,123	647	20	2,095
VII. Puerperal diseases.....	..	..	..	..	1	315	15	314	12	4	17	304	8	1	330
VIII. Diseases of the skin and cellular tissues.....	20	19	35	8	2	168	9	145	28	4	31	72	70	4	177
IX. Diseases of the locomotor system.....	3	3	2	1	..	59	6	54	8	3	44	14	6	1	65
X. Malformations.....	..	..	..	..	..	340	4	342	1	1	343	1	..	..	344
XI. Diseases of infancy.....	..	..	..	..	..	1,602	52	1,653	2	..	1,654	..	..	..	1,654
XII. Diseases of old age.....	59	117	330	113	2	625	9	439	172	23	44	146	431	13	634
XIII. External causes.....	85	86	125	16	33	2,463	64	2,078	302	147	1,130	924	399	104	2,527
XIV. Causes ill-defined.....	11	11	16	1	1	133	8	165	13	13	82	62	43	4	191
XV. Stillbirths.....	..	..	..	..	..	1,950	79	2,029	..	..	2,029	..	..	..	2,029
Total.....	2,650	2,435	2,776	392	87	34,804	1,420	31,910	3,575	739	15,285	13,136	7,431	372	36,224

TABLE No. 3

Deaths in Indiana by Months, Counties, Ages, Sex, Color, Nationality and Conjugal Condition, 1908.

COUNTIES.	Sex.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Adams.....	Total.....	16	24	24	24	13	15	14	19	12	28	14	12
	Male.....	8	15	15	15	6	4	9	11	7	7	15	9
Allen.....	Total.....	122	104	121	100	104	81	83	108	96	80	82	93
	Male.....	66	43	59	55	54	33	33	61	53	39	36	51
Bartholomew.....	Total.....	56	61	63	45	50	48	41	47	43	41	46	43
	Male.....	24	32	27	30	37	14	25	33	23	32	21	23
Bartlesville.....	Total.....	15	8	14	19	24	4	13	19	12	12	9	14
	Male.....	9	24	13	11	13	10	12	14	10	20	12	9
Benkov.....	Total.....	3	14	18	14	6	7	5	12	12	9	11	5
	Male.....	3	8	8	8	3	4	2	6	6	5	5	4
Blackford.....	Total.....	14	15	24	13	9	16	10	16	10	19	14	19
	Male.....	8	7	14	6	6	11	4	4	5	14	10	8
Boone.....	Total.....	30	33	37	25	36	21	19	35	31	22	27	26
	Male.....	17	16	19	12	17	13	7	17	16	13	18	13
Brown.....	Total.....	5	4	11	11	9	7	7	6	10	3	8	4
	Male.....	1	2	5	7	7	1	4	2	1	1	2	3
Carroll.....	Total.....	21	30	25	26	25	13	24	16	30	15	17	20
	Male.....	13	18	12	11	13	8	12	18	18	7	7	11
Cass.....	Total.....	49	55	54	51	60	48	49	46	54	43	49	40
	Male.....	30	25	23	23	30	30	20	15	27	23	23	21
Cass.....	Total.....	19	30	31	23	30	18	20	31	27	20	26	19
	Female.....	19	30	31	23	30	18	20	31	27	20	26	19

TABLE No. 3—Continued.

COUNTIES.	Sex.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Carr	Total	43	51	41	49	46	29	41	19	35	36	40	42
	Male	23	27	26	30	32	10	18	8	19	14	25	25
	Female	20	24	15	19	14	19	23	11	16	22	15	17
Clay	Total	34	40	33	41	33	30	49	47	40	37	30	29
	Male	16	23	14	18	20	15	25	26	15	18	11	19
	Female	18	17	19	23	13	15	24	21	25	19	19	10
Clinton	Total	32	43	39	32	37	21	42	28	26	29	39	33
	Male	22	30	27	18	20	7	24	25	10	13	19	17
	Female	10	23	22	14	17	14	18	11	16	16	20	16
Crawford	Total	15	18	15	16	13	10	10	10	17	8	13	16
	Male	7	15	7	10	7	6	5	6	7	3	3	7
	Female	8	3	8	6	6	4	5	4	10	5	8	9
Davies	Total	29	50	28	37	28	32	33	20	19	28	21	22
	Male	18	24	16	22	13	15	24	10	13	13	13	15
	Female	11	26	12	15	15	17	9	10	6	15	8	7
Dearborn	Total	27	39	33	25	33	16	20	23	18	12	25	23
	Male	15	17	20	19	18	9	10	12	9	9	17	6
	Female	12	22	13	6	15	7	10	11	9	3	8	17
Deatur	Total	22	32	28	26	15	10	26	20	18	15	16	25
	Male	12	18	18	12	6	6	11	17	9	6	6	16
	Female	10	14	10	14	10	4	15	13	9	9	10	9
Detail	Total	27	38	21	26	27	19	32	24	25	27	23	19
	Male	16	25	8	10	14	10	18	13	14	15	10	6
	Female	11	13	13	16	17	9	14	16	11	12	13	13
Dehware	Total	58	61	67	66	60	48	55	55	50	57	57	59
	Male	27	30	34	39	32	22	32	29	28	24	24	25
	Female	31	31	33	27	30	26	23	26	22	33	33	34
Debois	Total	34	30	17	14	11	11	11	15	14	20	20	15
	Male	21	15	8	3	6	4	5	6	6	12	10	9
	Female	13	15	9	11	5	7	6	9	8	8	10	6

Elkhart.....	Total.....	61	58	49	70	49	39	61	56	39	82	46	55
	Male.....	35	36	25	38	25	19	32	30	15	40	24	21
	Female.....	26	22	24	32	24	20	29	26	15	42	22	34
Payette.....	Total.....	22	18	11	14	11	18	14	18	20	19	17	15
	Male.....	11	10	6	10	6	6	8	13	13	8	11	7
	Female.....	11	8	5	4	5	12	6	5	7	11	6	8
Plynd.....	Total.....	73	54	44	88	44	38	31	33	29	37	44	33
	Male.....	40	29	25	17	25	21	19	20	15	19	15	19
	Female.....	33	25	19	21	19	17	15	13	14	18	16	13
Fountain.....	Total.....	20	22	22	30	22	18	19	27	20	19	19	17
	Male.....	9	14	13	22	13	8	11	19	13	7	12	4
	Female.....	11	8	9	8	9	10	8	8	13	12	7	13
Franklin.....	Total.....	17	17	23	20	20	15	22	19	10	18	12	20
	Male.....	10	8	8	14	8	4	13	11	6	12	4	11
	Female.....	7	9	15	6	12	11	9	8	13	6	7	9
Fulton.....	Total.....	20	20	17	20	17	15	18	15	16	15	12	17
	Male.....	10	10	11	9	7	7	11	10	8	8	4	11
	Female.....	10	10	6	11	9	8	7	6	8	7	8	6
Gibson.....	Total.....	38	44	28	37	28	34	44	49	35	29	41	28
	Male.....	22	27	18	20	18	18	33	28	20	15	16	13
	Female.....	16	17	12	7	10	16	21	21	15	14	25	13
Grant.....	Total.....	69	53	50	75	50	63	47	57	90	73	51	77
	Male.....	45	30	30	42	32	42	32	40	61	48	31	51
	Female.....	24	23	20	33	25	21	25	35	39	25	20	26
Greene.....	Total.....	38	57	44	40	44	27	33	40	41	27	41	29
	Male.....	24	34	25	15	23	14	14	12	14	16	21	17
	Female.....	14	23	19	24	13	13	19	28	27	11	18	12
Hamilton.....	Total.....	30	33	29	27	28	27	27	26	22	35	28	28
	Male.....	13	14	12	19	15	15	15	13	12	21	15	18
	Female.....	17	19	17	8	13	12	12	13	10	14	13	10
Hancock.....	Total.....	16	25	30	25	22	17	32	25	29	27	17	17
	Male.....	7	13	15	14	12	8	16	15	19	15	10	8
	Female.....	9	12	15	11	10	9	16	10	10	12	7	9
Harrison.....	Total.....	29	22	27	17	10	10	13	17	17	16	23	14
	Male.....	19	9	15	9	4	4	6	10	7	9	13	8
	Female.....	10	13	12	8	6	6	7	7	10	7	10	6
Hendricks.....	Total.....	23	22	35	25	24	22	17	18	28	24	33	23
	Male.....	13	14	11	12	13	11	10	5	16	14	18	14
	Female.....	10	8	24	13	11	11	7	13	12	10	15	9

TABLE No. 3—Continued.

COUNTIES.	Sex.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Henry	Total	30	30	33	40	26	29	35	28	30	27	24	20
	Male	21	19	19	19	18	13	16	14	16	14	14	9
Howard	Total	50	50	42	43	51	30	25	35	36	30	26	31
	Male	33	28	23	22	22	25	16	20	14	14	13	17
Huntington	Total	17	22	19	21	26	11	9	19	16	16	13	14
	Female	17	22	19	21	26	11	9	19	16	16	13	14
Jackson	Total	20	38	36	22	30	18	38	30	39	22	22	23
	Male	16	19	17	11	19	9	20	16	23	11	11	14
Jasper	Total	13	19	19	11	20	9	13	14	17	11	13	8
	Female	13	19	19	11	20	9	13	14	17	11	13	8
Jay	Total	27	32	30	25	37	28	30	23	40	30	36	26
	Male	19	18	9	14	14	15	15	14	21	17	20	10
Jefferson	Total	8	14	21	11	17	13	16	21	19	13	16	15
	Female	8	14	21	11	17	13	16	21	19	13	16	15
Jennings	Total	15	23	17	9	14	9	12	14	8	19	12	6
	Male	8	14	11	3	7	6	7	8	4	10	9	4
Johnson	Total	7	9	6	6	7	3	5	6	4	10	6	2
	Female	7	9	6	6	7	3	5	6	4	10	6	2
Johson	Total	25	33	36	30	28	16	20	28	24	28	39	19
	Male	17	19	19	16	13	7	11	15	13	15	22	12
Jefferson	Total	8	14	17	14	16	9	9	13	11	13	17	7
	Female	8	14	17	14	16	9	9	13	11	13	17	7
Jennings	Total	48	30	32	33	20	23	26	34	21	34	34	23
	Male	23	21	15	15	20	7	15	10	10	17	17	12
Johnson	Total	25	21	17	13	13	7	11	14	11	17	17	10
	Female	25	21	17	13	13	7	11	14	11	17	17	10
Jennings	Total	16	21	19	27	12	11	21	17	23	13	12	13
	Male	9	9	7	16	3	7	10	9	11	7	8	7
Johnson	Total	7	12	12	11	9	4	11	8	12	6	4	6
	Female	7	12	12	11	9	4	11	8	12	6	4	6
Johnson	Total	24	36	28	20	20	24	34	19	19	19	13	21
	Male	13	12	10	7	9	7	18	10	8	7	6	11
Johnson	Total	11	24	18	13	11	15	16	9	11	12	7	10
	Female	11	24	18	13	11	15	16	9	11	12	7	10

Knox.....	Total.....	53	48	53	53	26	26	55	39	53	58	50	44	54	43
	Male.....	26	22	36	33	26	26	23	15	30	31	27	31	31	24
	Female.....	27	26	17	20	29	26	32	24	23	27	23	23	23	19
Kosciusko.....	Total.....	46	22	36	33	29	26	29	19	27	27	21	35	33	33
	Male.....	18	12	23	14	16	16	13	8	13	16	12	20	18	19
	Female.....	28	10	13	19	13	10	16	11	14	11	9	15	15	14
Lagrange.....	Total.....	27	22	21	16	11	12	15	10	15	10	13	17	21	12
	Male.....	17	14	8	8	4	6	8	6	8	6	5	12	13	6
	Female.....	10	8	13	8	7	6	7	6	7	4	5	5	8	7
Lake.....	Total.....	77	100	111	98	75	68	93	109	93	109	88	76	96	83
	Male.....	53	60	69	65	46	48	56	65	56	65	55	41	41	51
	Female.....	25	40	42	33	29	20	37	44	37	44	33	35	25	32
Laporte.....	Total.....	57	56	40	60	50	40	41	40	41	56	49	42	55	47
	Male.....	26	30	21	35	33	21	18	21	18	32	32	22	24	33
	Female.....	31	26	19	25	17	19	23	19	23	23	17	20	21	14
Lawrence.....	Total.....	42	38	44	31	36	36	35	36	35	39	27	19	38	35
	Male.....	26	21	21	9	16	14	15	19	15	19	8	11	18	19
	Female.....	16	17	23	23	20	22	20	20	20	20	19	8	20	16
Madison.....	Total.....	67	61	71	77	62	53	55	70	55	70	62	61	67	58
	Male.....	31	24	37	46	34	31	33	42	33	42	30	32	32	34
	Female.....	36	37	34	31	28	22	22	28	22	28	32	29	35	24
Marion.....	Total.....	387	332	356	327	278	262	314	321	314	321	278	314	271	269
	Male.....	210	180	200	181	138	168	173	173	173	173	134	174	160	169
	Female.....	157	152	156	146	140	124	142	148	142	148	144	140	111	120
Marshall.....	Total.....	14	29	22	20	23	28	27	19	27	19	33	23	25	23
	Male.....	6	15	12	15	8	15	15	10	15	10	19	13	14	10
	Female.....	8	14	10	15	15	12	12	9	12	9	14	10	11	13
Martin.....	Total.....	23	16	19	14	12	6	20	16	20	16	11	21	7	8
	Male.....	10	9	8	8	4	3	7	11	7	11	7	10	3	6
	Female.....	13	7	11	6	8	3	13	5	13	5	4	11	4	3
Miami.....	Total.....	45	35	42	23	24	37	22	19	22	19	28	34	31	27
	Male.....	27	19	22	12	12	19	12	6	13	6	13	20	12	15
	Female.....	18	16	20	11	12	18	10	13	10	13	15	14	19	12
Monroe.....	Total.....	33	24	29	24	23	23	26	31	26	31	30	24	24	17
	Male.....	18	12	12	16	10	11	10	15	16	15	12	12	15	7
	Female.....	15	12	15	8	13	12	16	16	10	16	18	12	9	9
Montgomery.....	Total.....	36	44	34	27	31	30	33	29	33	29	30	26	26	34
	Male.....	20	23	20	15	19	14	18	12	18	12	18	14	14	19
	Female.....	16	21	14	12	12	16	15	17	15	17	12	12	18	15

TABLE No. 3—Continued.

COUNTIES.	Sex.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Morgan.....	Total.....	22	35	26	22	22	22	28	31	28	17	31	15
	Male.....	14	19	18	8	15	13	14	19	16	7	13	6
	Female.....	8	16	18	14	7	19	14	12	12	10	18	9
Newton.....	Total.....	12	12	8	7	7	7	7	3	4	14	13	5
	Male.....	3	6	2	1	4	4	3	2	3	8	4	4
	Female.....	9	6	6	6	3	3	4	1	1	6	9	1
Noble.....	Total.....	23	36	26	30	15	23	22	31	33	31	25	25
	Male.....	14	18	18	19	7	16	11	19	20	18	15	11
	Female.....	9	18	8	11	8	7	11	12	13	13	10	14
Ohio.....	Total.....	4	4	5	8	6	6	6	6	3	6	6	8
	Male.....	1	2	2	4	4	4	4	4	2	2	2	3
	Female.....	3	2	3	4	2	2	2	2	1	4	4	5
Orange.....	Total.....	24	32	21	20	14	10	13	24	20	15	15	18
	Male.....	11	14	11	12	6	5	8	13	11	9	6	6
	Female.....	13	18	10	8	8	5	5	11	9	6	9	12
Owen.....	Total.....	16	18	10	11	9	9	14	13	17	16	11	15
	Male.....	10	14	4	4	6	3	7	7	6	10	6	10
	Female.....	6	4	6	7	3	6	7	6	11	6	5	5
Parks.....	Total.....	24	20	22	21	24	27	18	24	32	23	24	23
	Male.....	10	17	10	15	16	14	9	12	15	13	11	10
	Female.....	14	13	12	6	8	13	9	12	17	10	13	13
Perry.....	Total.....	25	36	10	15	10	19	15	18	23	10	20	10
	Male.....	8	21	6	8	4	8	7	7	10	5	11	6
	Female.....	17	15	4	7	6	11	8	9	13	5	9	4
Pike.....	Total.....	17	38	23	23	12	23	32	19	32	21	29	20
	Male.....	11	11	10	11	11	11	14	10	15	11	14	10
	Female.....	6	27	13	12	1	12	18	9	17	10	15	10
Porter.....	Total.....	31	23	23	21	19	15	23	23	25	10	18	14
	Male.....	22	14	12	12	9	7	10	12	11	8	11	11
	Female.....	9	9	10	9	10	8	13	11	14	2	7	3

Foxy.....	Total.....	33	37	32	22	17	26	22	25	15	19	23
	Male.....	16	24	14	12	7	13	10	12	10	9	6
	Female.....	17	13	18	10	10	13	10	13	5	10	17
Fulaski.....	Total.....	19	15	10	9	6	4	15	13	14	13	15
	Male.....	9	8	6	7	1	2	7	6	11	9	8
	Female.....	10	7	4	2	5	2	8	7	3	4	7
Putnam.....	Total.....	21	25	16	28	23	31	20	26	17	11	24
	Male.....	11	15	9	16	13	17	13	11	10	5	14
	Female.....	10	18	7	22	10	14	7	15	7	6	10
Randolphi.....	Total.....	28	23	38	31	33	29	32	26	38	23	26
	Male.....	13	9	14	16	17	14	13	15	15	10	13
	Female.....	15	9	23	19	16	15	19	11	23	13	13
Ripley.....	Total.....	26	30	19	17	16	12	18	16	15	17	20
	Male.....	15	21	17	8	7	3	7	8	7	10	9
	Female.....	11	13	10	9	9	9	11	8	8	7	11
Rush.....	Total.....	24	23	21	19	19	19	34	18	18	12	24
	Male.....	6	11	13	10	11	9	13	10	8	7	13
	Female.....	18	10	10	9	8	10	21	8	10	5	11
Scott.....	Total.....	10	14	7	4	5	8	7	6	10	6	10
	Male.....	5	6	3	2	2	2	4	6	5	1	7
	Female.....	5	8	4	2	3	6	3	6	5	5	3
Shelby.....	Total.....	36	43	27	27	20	23	39	30	31	24	23
	Male.....	18	24	17	12	10	8	12	15	18	11	5
	Female.....	18	26	15	17	12	11	24	12	12	13	17
Spencer.....	Total.....	15	35	19	17	24	18	15	24	21	15	21
	Male.....	4	16	19	5	10	7	8	9	10	5	13
	Female.....	11	16	6	12	14	11	7	15	11	10	8
Starke.....	Total.....	13	5	14	11	7	8	7	11	14	12	8
	Male.....	9	4	9	7	4	5	4	10	6	8	4
	Female.....	4	1	5	4	3	3	3	1	8	4	4
Steeben.....	Total.....	17	21	21	13	12	11	14	20	19	9	17
	Male.....	9	10	7	6	6	7	7	9	9	5	12
	Female.....	8	11	14	4	6	4	7	11	10	4	5
St. Joseph.....	Total.....	104	100	82	79	75	76	104	90	88	86	70
	Male.....	50	41	45	47	45	46	67	44	48	53	37
	Female.....	54	44	36	32	34	31	37	46	40	33	33

TABLE No. 3—Continued.

COUNTIES.	Sex.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Sullivan.....	Total.....	36	43	38	24	24	21	43	34	44	33	37	33
	Male.....	14	22	24	15	15	9	21	16	16	17	17	15
	Female.....	22	21	14	9	9	12	22	18	28	16	11	18
Switzerland.....	Total.....	21	19	28	18	12	12	16	18	9	12	11	13
	Male.....	14	10	11	11	7	6	8	12	6	10	6	1
	Female.....	7	9	17	7	5	6	8	6	3	2	5	12
Tippesawee.....	Total.....	71	59	51	55	44	56	49	61	49	65	55	51
	Male.....	38	31	29	27	26	33	23	35	23	38	26	26
	Female.....	33	28	22	28	18	23	26	26	24	27	29	29
Tipton.....	Total.....	23	19	14	22	22	13	22	23	16	11	11	17
	Male.....	15	12	9	12	12	6	11	11	7	6	6	10
	Female.....	8	7	5	10	10	7	11	12	9	5	5	7
Union.....	Total.....	3	10	9	5	5	8	2	9	3	9	7	5
	Male.....	2	4	6	1	1	2	1	8	3	7	3	4
	Female.....	1	6	3	4	3	6	1	1	.....	2	4	1
Vanderburgh.....	Total.....	134	147	109	100	89	96	105	101	75	80	87	97
	Male.....	68	65	57	53	44	53	51	59	39	46	41	51
	Female.....	66	82	52	47	45	43	54	42	36	34	46	37
Vermillion.....	Total.....	16	25	31	26	20	13	46	22	31	21	18	19
	Male.....	11	11	16	14	16	11	20	10	13	13	10	10
	Female.....	5	14	15	12	4	2	26	12	8	8	8	9
Vigo.....	Total.....	115	122	103	116	114	75	97	95	84	100	92	85
	Male.....	62	62	63	68	70	47	56	56	52	56	56	52
	Female.....	53	60	40	48	44	28	41	51	44	44	40	43
Wabash.....	Total.....	31	35	37	27	22	21	24	24	24	22	22	22
	Male.....	16	21	18	14	12	13	13	13	17	14	10	18
	Female.....	15	14	19	13	10	8	10	11	7	8	12	4
Warren.....	Total.....	12	18	18	6	8	7	8	11	12	9	9	10
	Male.....	7	7	4	4	5	7	4	5	5	5	11	5
	Female.....	5	11	9	2	3	.....	4	6	7	4	6	5

Warwick...	Total.....	31	20	28	25	17	33	27	24	21	21	15
	Male.....	20	13	13	11	11	15	11	13	10	10	5
	Female.....	11	7	15	14	6	18	16	11	11	10	10
Washington...	Total.....	25	32	23	18	26	26	21	12	18	20	25
	Male.....	13	21	14	6	17	11	11	7	7	13	10
	Female.....	12	11	9	12	9	15	10	5	11	7	15
Wayne.....	Total.....	50	43	48	53	53	49	40	50	48	46	56
	Male.....	30	24	19	30	34	25	20	23	25	23	33
	Female.....	20	19	29	23	19	23	20	27	23	24	23
Wells.....	Total.....	23	18	17	20	10	23	16	20	18	17	19
	Male.....	13	7	9	7	7	15	7	10	10	4	9
	Female.....	11	11	8	13	3	4	9	10	8	13	10
White.....	Total.....	18	27	16	12	14	22	10	14	16	12	15
	Male.....	7	17	8	7	9	14	4	6	10	6	6
	Female.....	11	10	8	5	5	8	6	8	6	6	9
Whitley.....	Total.....	24	12	12	19	15	18	16	14	14	14	12
	Male.....	16	5	8	8	10	9	6	8	6	9	6
	Female.....	8	7	4	11	5	9	10	0	8	5	6
Total males.....		1,871	1,793	1,699	1,505	1,350	1,554	1,632	1,493	1,514	1,496	1,451
Total females.....		1,723	1,596	1,433	1,380	1,197	1,404	1,436	1,404	1,345	1,306	1,263
Grand total.....		3,594	3,389	3,132	2,885	2,547	2,958	3,068	2,897	2,859	2,792	2,714

TABLE No. 3—Continued.

Deaths in Indiana by Months, Counties, Ages, Sex, Color, Nationality and Conjugal Condition, 1908.

COUNTIES.	Sex.	0	1	2	3	4	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70
Adams.....	Total.....	62	10	2	2	.....	5	4	7	16	3	3	.....	6	5	6	8	14	14
	Male.....	35	5	.....	1	.....	3	2	2	8	1	.....	.....	2	2	6	6	5	10
	Female.....	27	5	2	1	.....	2	2	5	8	2	3	.....	4	3	.....	2	9	4
Allen.....	Total.....	243	33	14	6	2	21	23	31	59	58	40	42	34	49	90	64	51	70
	Male.....	137	18	7	4	.....	12	12	13	33	19	17	19	21	24	28	30	30	30
	Female.....	106	15	7	2	2	9	11	19	26	39	23	23	13	25	32	34	24	40
Bartholomew.....	Total.....	67	8	5	1	.....	6	6	10	13	17	9	6	6	11	19	21	18	24
	Male.....	37	5	3	1	.....	2	4	3	6	10	4	2	1	5	8	14	10	11
	Female.....	30	3	2	.....	.....	4	2	7	7	7	5	4	5	6	11	7	5	13
Benton.....	Total.....	32	5	4	.....	2	2	1	2	4	4	.....	.....	2	2	4	8	6	5
	Male.....	21	3	2	.....	1	1	.....	2	4	2	.....	.....	1	1	3	4	4	2
	Female.....	11	2	2	.....	1	2	.....	.....	.....	2	.....	.....	1	1	1	4	2	3
Blackford.....	Total.....	50	6	6	1	.....	1	.....	2	5	8	3	6	10	7	6	7	8	10
	Male.....	24	5	4	1	.....	1	.....	1	3	4	3	2	3	3	3	5	7	6
	Female.....	26	1	2	.....	.....	.....	.....	1	2	4	.....	4	5	4	3	2	1	4
Boone.....	Total.....	62	11	5	2	1	2	5	10	7	9	11	7	12	11	13	16	22	20
	Male.....	34	7	3	.....	.....	2	3	6	4	5	4	4	6	6	9	8	10	8
	Female.....	28	4	2	2	1	.....	2	4	3	4	7	3	6	5	4	9	14	10
Brown.....	Total.....	23	3	3	.....	.....	2	1	8	3	3	1	1	2	1	1	1	4	5
	Male.....	11	3	2	.....	.....	1	1	2	1	1	.....	.....	1	.....	1	.....	3	4
	Female.....	12	.....	1	.....	.....	1	.....	6	2	2	1	1	1	1	.....	.....	1	1
Carroll.....	Total.....	50	8	2	3	.....	3	9	10	8	8	12	6	10	9	11	11	21	18
	Male.....	29	2	1	2	.....	1	1	5	5	2	7	3	6	6	6	8	12	12
	Female.....	21	6	1	1	.....	2	8	5	3	6	5	3	4	3	5	3	9	6

Cass.....	87	14	7	1	10	7	13	22	19	30	36	38	23	37	39	39	29
Male.....	48	4	4	1	6	4	7	13	8	13	25	19	13	14	23	23	23
Female.....	39	10	5	4	4	3	5	9	11	17	14	19	10	14	17	17	17
Clark.....	85	11	3	3	4	14	13	19	21	15	10	24	24	25	35	29	29
Male.....	48	4	1	2	3	10	8	14	6	6	4	8	16	13	25	17	17
Female.....	37	7	2	1	1	4	5	7	15	9	6	16	8	12	10	12	12
Clay.....	94	24	9	6	13	6	12	15	16	18	11	17	18	11	37	31	31
Male.....	55	10	3	5	3	2	5	2	7	13	5	13	8	7	18	17	17
Female.....	39	14	7	1	8	4	7	9	9	7	6	4	10	4	19	14	14
Clinton.....	85	22	10	3	8	7	12	15	17	10	6	17	17	20	20	33	33
Male.....	41	17	3	2	3	2	7	10	6	3	2	8	5	7	10	27	27
Female.....	44	5	2	1	6	5	5	8	7	9	4	9	12	13	10	6	6
Crawford.....	23	8	3	5	1	5	9	7	7	11	4	3	6	5	9	7	7
Male.....	14	5	2	2	1	4	4	3	1	5	1	4	2	4	4	7	7
Female.....	9	3	3	3	1	1	5	4	6	6	3	1	4	1	5	.....	.....
Davies.....	86	20	3	8	3	7	7	13	11	14	7	7	13	19	17	21	21
Male.....	50	12	2	2	3	3	5	10	7	5	2	5	6	14	9	11	11
Female.....	36	8	1	6	3	4	2	3	4	9	4	2	7	5	8	10	10
Dearborn.....	36	10	5	1	3	4	8	10	12	10	11	8	11	13	20	24	24
Male.....	17	8	2	1	3	2	6	5	7	8	4	5	8	6	7	15	15
Female.....	19	2	3	1	.....	2	2	5	5	3	3	4	3	8	13	9	9
Decatur.....	44	13	2	2	5	6	6	8	13	6	4	11	14	10	20	17	17
Male.....	27	4	2	2	1	1	3	4	6	3	1	4	9	3	15	9	9
Female.....	17	9	.....	.....	.....	5	3	4	7	3	3	7	5	7	5	8	8
DeKalb.....	61	10	3	.....	4	6	4	10	5	9	10	11	20	23	17	25	25
Male.....	34	6	2	.....	2	3	2	6	1	4	4	4	8	14	13	13	13
Female.....	27	4	1	.....	2	3	2	4	4	5	6	7	12	9	9	12	12
Delaware.....	171	89	23	10	3	8	23	27	25	24	25	29	24	41	33	48	48
Male.....	90	17	6	2	5	4	11	14	11	11	15	13	14	26	17	28	28
Female.....	83	15	4	1	3	4	12	13	14	12	10	16	10	15	16	20	20
Dubuois.....	52	11	5	2	2	5	6	6	6	5	8	6	10	12	16	10	10
Male.....	29	5	2	1	2	1	2	1	3	2	5	3	5	4	12	5	5
Female.....	23	6	3	1	2	4	4	5	3	3	4	3	5	8	4	5	5
Elkhart.....	129	20	6	6	10	16	10	21	25	23	16	22	39	37	42	53	53
Male.....	67	9	3	5	3	8	7	12	9	13	10	10	17	23	24	24	24
Female.....	62	11	3	3	4	8	3	9	16	11	6	14	22	14	19	29	29

TABLE No. 3—Continued.

COUNTIES.	Sex.	0	1	2	3	4	5 to 10	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70
Fayette.....	Total.....	38	5	5	2		3	2	4	7	7	5	7	8	9	8	11	11	17
	Male.....	22	3	5	1		1	1	3	2	5	3	3	2	3	5	7	6	6
Floyd.....	Total.....	16	2		1		2	1	1	5	2	3	4	6	6	3	4	6	11
	Female.....																		
Fountain.....	Total.....	75	11	3	9	2	11	7	18	20	14	21	21	14	21	26	25	28	35
	Male.....	45	7	1	5	2	4	3	9	10	7	9	11	9	11	15	16	23	33
Franklin.....	Total.....	30	4	2	4		4	4	9	10	7	8	12	5	10	11	9	18	12
	Female.....																		
Franklin.....	Total.....	46	9	3	2	2	5	4	9	9	7	5	7	6	12	11	15	23	27
	Male.....	24	8	1	2	2	5	4	5	5	3	2	3	4	6	6	9	12	13
Fulton.....	Total.....	22	1	2	2	2	5	4	4	4	4	3	4	2	6	5	6	11	9
	Female.....																		
Fulton.....	Total.....	37	2	4	2	3	5	2	4	6	11	7	8	5	9	11	13	7	17
	Male.....	17	2	2	1	3	2	2	2	2	2	5	4	4	4	6	8	1	8
Gibson.....	Total.....	20		2	1	3	3		2	4	9	2	4	1	5	5	8	6	8
	Female.....																		
Grant.....	Total.....	39	5	2	2	1	1	3	2	9	5	8	5	4	8	11	14	16	15
	Male.....	23	4	1	2	1	2	2	2	3	3	3	4	1	1	6	9	10	6
Greene.....	Total.....	16	1	1			1	1	2	6	2	7	1	3	7	5	5	6	10
	Female.....																		
Hamilton.....	Total.....	110	18	6	3	5	15	7	19	15	7	13	10	19	11	18	26	14	20
	Male.....	66	10	2	3	4	11	3	9	7	4	8	6	9	7	8	14	6	10
Hamilton.....	Total.....	44	8	4		1	4	4	10	8	3	5	4	10	4	10	12	8	10
	Female.....																		
Hamilton.....	Total.....	141	16	13	7	4	12	13	17	25	19	15	20	18	17	31	41	56	94
	Male.....	75	10	7	5	2	7	4	6	16	8	11	11	8	9	16	23	40	63
Hamilton.....	Total.....	66	6	6	2	2	5	9	11	9	11	4	9	10	8	15	18	16	31
	Female.....																		
Hamilton.....	Total.....	126	29	7	3	2	13	7	16	23	26	10	14	9	18	17	20	13	23
	Male.....	60	11	4	1	2	6	3	8	12	6	10	2	2	10	9	10	7	10
Hamilton.....	Total.....	66	18	3	2	2	7	4	8	11	14	4	4	7	8	8	10	6	13
	Female.....																		
Hamilton.....	Total.....	61	7	4	2	3	7	4	15	11	14	9	12	13	9	16	14	19	26
	Male.....	36	5	1	1	1	5	4	12	3	7	3	7	6	5	10	9	11	19
Hamilton.....	Total.....	25	2	3	1	2	2	4	7	8	7	6	5	6	4	3	5	8	7
	Female.....																		

Hancock.....	Total.....	49	13	4	2	1	3	5	6	8	9	13	15	9	2	8	10	17	16	17
Male.....	Male.....	33	7	1	1	3	3	3	4	4	5	3	8	2	7	6	4	12	10	11
Female.....	Female.....	16	4	1	1	1	1	2	2	4	4	10	7	7	7	2	4	5	6	6
Harrison.....	Total.....	45	4	1	1	1	1	7	6	6	12	9	6	7	7	9	9	8	14	19
Male.....	Male.....	30	3	1	1	1	1	5	5	5	5	6	3	3	3	5	4	5	9	9
Female.....	Female.....	15	1	1	1	1	1	2	1	1	7	3	3	4	4	4	5	4	5	10
Headricks.....	Total.....	61	9	2	2	1	7	5	8	12	12	11	11	5	5	8	8	9	14	12
Male.....	Male.....	37	4	1	1	1	5	5	6	6	6	6	7	3	3	1	2	6	4	6
Female.....	Female.....	24	5	1	1	1	2	2	2	6	8	4	4	2	2	7	6	4	7	6
Henry.....	Total.....	80	9	6	3	3	2	5	8	12	12	11	11	16	16	9	11	20	19	35
Male.....	Male.....	46	6	3	2	1	5	3	3	4	7	3	6	6	6	2	6	10	10	12
Female.....	Female.....	34	3	3	2	2	2	2	5	8	5	8	5	10	10	7	5	10	9	19
Howard.....	Total.....	105	16	9	6	1	8	16	9	11	19	14	14	12	12	23	18	20	24	23
Male.....	Male.....	61	11	4	4	2	11	13	3	5	11	6	9	8	9	14	16	16	16	10
Female.....	Female.....	44	5	5	2	1	5	3	6	6	8	8	5	4	4	9	11	4	8	13
Huntington.....	Total.....	65	9	6	2	2	4	12	10	13	6	6	4	4	9	10	15	15	23	26
Male.....	Male.....	38	1	4	1	1	3	8	2	5	5	3	3	4	4	6	9	12	13	16
Female.....	Female.....	26	5	2	1	1	1	4	8	8	1	3	1	1	5	4	6	3	10	10
Jackson.....	Total.....	96	17	4	3	5	7	8	11	11	16	13	13	13	13	8	13	14	15	28
Male.....	Male.....	56	11	4	3	3	4	7	6	6	12	12	12	4	4	6	8	9	14	16
Female.....	Female.....	39	6	4	2	2	3	1	5	5	4	1	1	9	9	2	5	5	7	12
Jasper.....	Total.....	26	1	3	2	1	4	3	11	7	9	8	8	2	2	4	5	9	8	13
Male.....	Male.....	17	1	1	1	1	2	2	6	6	4	5	4	2	2	2	4	7	5	5
Female.....	Female.....	9	1	2	1	1	2	1	5	1	5	4	4	3	1	2	1	1	1	8
Jay.....	Total.....	73	8	6	1	3	11	13	10	17	6	6	6	6	9	6	12	18	23	21
Male.....	Male.....	42	1	4	2	1	6	8	5	8	3	3	4	3	3	4	8	11	9	12
Female.....	Female.....	31	7	2	1	2	5	5	5	9	3	3	2	2	6	2	4	7	14	9
Jefferson.....	Total.....	53	11	1	1	2	5	6	11	11	15	9	9	14	14	9	16	19	26	29
Male.....	Male.....	28	8	1	1	2	4	4	7	9	6	6	7	7	7	8	11	10	13	14
Female.....	Female.....	25	3	1	1	1	1	2	4	2	9	3	2	7	7	1	5	9	13	15
Jennings.....	Total.....	34	5	5	2	2	4	8	4	4	4	4	9	2	2	3	7	7	22	16
Male.....	Male.....	19	1	1	1	1	3	3	3	3	3	3	7	2	2	1	4	4	8	6
Female.....	Female.....	15	4	4	1	1	1	5	1	1	1	1	2	2	1	2	3	3	14	10
Johnson.....	Total.....	56	8	9	1	3	3	6	12	14	9	9	7	7	6	7	10	19	13	18
Male.....	Male.....	30	7	4	1	1	2	5	5	7	11	8	7	7	7	8	9	10	7	8
Female.....	Female.....	26	1	5	1	2	1	1	7	7	2	2	2	2	2	2	3	9	6	10

TABLE No. 3—Continued.

COUNTIES.	Sex.	0	1	2	3	4	5	10	15	20	25	30	35	40	45	50	55	60	65	70
Knox.....	Total.....	162	27	14	4	5	23	8	16	20	34	18	22	21	23	24	25	23	25	25
	Male.....	93	15	7	4	4	6	5	7	7	8	9	9	13	11	11	15	10	12	12
Kosciusko.....	Total.....	69	12	7	...	1	17	3	9	13	26	9	13	8	11	13	10	13	13	13
	Female.....	73	6	10	2	1	6	4	7	6	14	9	11	13	13	13	13	23	28	28
Lagrange.....	Total.....	41	5	8	1	1	3	2	6	5	4	5	4	7	6	4	6	8	10	10
	Male.....	32	1	2	1	...	3	2	1	1	10	1	4	7	6	7	9	15	18	18
Lake.....	Total.....	41	9	3	1	1	2	...	3	1	4	2	5	7	4	8	10	15	18	18
	Male.....	24	6	1	...	1	2	...	2	1	2	2	1	2	2	4	4	8	8	8
Laporte.....	Total.....	17	3	2	1	1	...	...	1	...	2	...	4	5	2	4	6	7	10	10
	Female.....	385	43	29	9	6	17	12	23	54	46	48	47	52	43	34	27	30	31	31
Lawrence.....	Total.....	227	21	14	5	5	7	9	12	39	34	36	32	35	30	23	22	17	20	20
	Female.....	158	22	15	4	1	10	3	6	15	12	12	15	17	13	11	5	13	11	11
Lawrence.....	Total.....	131	13	6	3	1	8	3	13	22	25	25	28	24	30	19	22	33	42	42
	Male.....	78	8	2	1	1	6	...	6	13	16	15	15	15	15	16	15	16	22	23
Madison.....	Total.....	53	5	4	2	...	...	3	7	9	9	10	13	9	15	3	7	17	20	20
	Male.....	103	16	7	4	1	10	6	18	22	17	22	13	16	11	15	20	14	24	24
Marion.....	Total.....	51	9	4	4	...	6	2	11	4	4	8	9	9	6	6	13	7	10	10
	Female.....	52	7	3	...	1	4	4	12	11	13	14	4	7	6	10	7	7	14	14
Marion.....	Total.....	199	34	4	6	7	13	12	19	31	26	28	25	24	28	39	35	48	44	44
	Male.....	113	16	4	4	4	10	10	15	15	15	11	14	19	11	13	14	24	24	24
Marion.....	Total.....	86	18	...	2	3	3	2	9	16	11	17	11	15	17	26	21	24	20	20
	Female.....	675	88	46	32	14	69	47	128	152	160	184	204	177	209	220	206	243	258	258
Marshall.....	Total.....	383	48	23	18	6	30	30	59	79	77	101	118	99	122	133	121	140	140	140
	Female.....	292	40	23	14	8	34	17	69	73	83	83	86	78	87	87	85	94	118	118
Marshall.....	Total.....	70	9	2	...	...	3	8	5	5	4	7	7	5	4	14	17	25	28	28
	Male.....	41	2	...	...	...	2	6	2	...	2	1	4	4	3	10	6	15	14	14
Marshall.....	Total.....	29	7	2	...	...	1	2	3	...	5	6	3	1	1	4	11	10	11	11
	Female.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Martin.....	Total.....	51	4	1	1	2	6	4	3	11	4	7	3	4	6	7	8	6	12	9
Male.....	31	1	1	2	5	3	3	3	2	4	3	4	2	2	2	3	3	1	5	4
Female.....	20	3	1	1	1	1	1	1	1	7	1	1	1	1	1	1	5	5	7	5
Miami.....	Total.....	64	8	5	2	1	4	6	10	12	10	21	8	9	15	19	19	22	21	26
Male.....	37	5	2	2	2	1	2	2	4	4	5	3	14	6	3	9	9	11	11	17
Female.....	27	3	3	1	1	1	2	2	6	7	7	7	2	6	6	10	10	11	10	9
Monroe.....	Total.....	66	20	5	4	3	7	3	2	16	13	16	13	9	16	13	13	10	14	14
Male.....	35	10	1	2	3	3	3	3	2	9	6	9	6	8	2	9	7	4	10	7
Female.....	31	10	4	2	1	1	4	2	2	7	7	10	5	7	7	6	6	4	4	7
Montgomery.....	Total.....	66	9	5	2	1	4	3	8	13	18	13	11	15	11	16	14	14	28	30
Male.....	39	2	1	1	3	1	3	1	3	7	9	9	9	8	7	9	8	6	22	12
Female.....	27	7	4	1	1	2	1	2	5	6	9	4	2	7	4	7	6	8	6	18
Morgan.....	Total.....	68	9	6	3	1	11	6	11	19	7	14	8	11	11	13	13	17	17	18
Male.....	37	4	3	2	2	1	6	3	5	13	7	7	6	3	6	7	8	8	12	5
Female.....	31	5	3	1	5	3	5	3	6	6	6	7	2	8	4	6	6	9	5	13
Newton.....	Total.....	24	2	1	1	1	5	2	2	6	3	3	3	2	2	2	5	3	5	10
Male.....	12	1	1	1	2	1	2	1	2	4	1	1	1	1	1	1	3	1	5	6
Female.....	12	1	1	1	3	1	3	1	2	2	2	2	2	1	1	1	2	2	5	4
Noble.....	Total.....	77	10	3	4	1	1	5	9	5	9	7	10	5	9	14	14	18	24	21
Male.....	47	5	1	3	1	1	3	3	4	2	5	3	4	3	4	7	7	12	14	12
Female.....	30	5	2	1	1	1	2	2	5	3	4	4	6	3	5	7	6	6	10	9
Ohio.....	Total.....	10	2	2	1	1	2	2	2	2	4	5	3	4	4	3	1	3	5	5
Male.....	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
Female.....	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
Orange.....	Total.....	46	7	4	6	3	3	7	12	12	9	6	6	6	10	7	7	12	12	16
Male.....	24	4	1	5	2	2	2	4	6	6	5	4	3	3	4	2	2	6	6	8
Female.....	22	3	3	1	3	1	1	3	7	6	4	2	3	4	8	5	5	11	6	8
Owen.....	Total.....	22	8	5	3	1	5	2	2	6	2	3	3	6	1	7	10	5	5	21
Male.....	19	2	4	1	2	1	3	2	1	3	2	2	1	3	1	1	5	1	1	13
Female.....	3	6	1	2	1	1	2	2	1	3	1	1	2	3	1	6	5	4	4	8
Parke.....	Total.....	72	8	3	3	2	4	3	9	9	9	11	10	4	6	10	8	8	19	26
Male.....	49	5	2	1	1	1	2	1	5	4	6	6	5	2	3	6	3	10	13	18
Female.....	23	3	1	2	1	1	2	2	4	5	3	5	5	2	3	4	5	5	9	8
Perry.....	Total.....	54	7	4	2	1	4	4	4	17	6	10	3	1	5	7	8	8	8	9
Male.....	27	3	1	1	1	1	2	2	1	7	2	2	1	1	3	4	3	3	3	6
Female.....	27	3	3	1	1	1	2	2	3	10	4	8	2	1	2	3	4	5	5	3

TABLE No. 3—Continued.

COUNTIES.	Sex.	0	1	2	3	4	5	10 to 15	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70
Pike.....	Total.....	72	13	11	3	2	8	3	13	9	9	8	15	4	11	10	13	14	23
	Male.....	32	6	6	1	1	3	2	8	4	5	3	5	3	3	7	7	8	9
	Female.....	40	7	5	2	1	5	1	5	5	4	5	10	1	8	3	6	6	14
Porter.....	Total.....	49	4	3	3	.....	1	3	2	5	5	8	6	7	10	8	16	15	17
	Male.....	26	2	.....	.....	.....	.....	2	1	3	2	2	2	4	7	6	7	9	9
	Female.....	23	2	3	3	.....	1	1	1	2	3	6	4	3	3	2	9	6	8
Posey.....	Total.....	80	12	9	3	3	6	11	9	16	13	6	13	11	7	10	16	13	15
	Male.....	51	5	6	1	3	3	6	7	7	6	3	9	5	3	4	8	8	6
	Female.....	29	7	3	2	.....	3	5	2	9	8	3	4	6	4	6	8	5	9
Pulaski.....	Total.....	35	6	3	.....	2	5	2	4	8	4	2	8	1	.....	6	5	6	7
	Male.....	24	4	.....	.....	1	2	2	2	1	1	1	4	.....	.....	4	2	4	4
	Female.....	11	2	3	.....	1	3	.....	2	7	3	1	4	1	.....	2	3	2	3
Putnam.....	Total.....	59	9	1	1	1	3	8	12	12	5	9	5	9	11	19	16	18	22
	Male.....	38	5	.....	.....	.....	2	5	8	10	2	4	1	4	2	9	8	9	10
	Female.....	23	4	1	1	1	1	3	4	2	3	5	4	5	9	10	8	9	12
Randolph.....	Total.....	72	9	5	1	4	7	5	10	11	10	13	12	7	17	12	18	17	27
	Male.....	40	5	3	.....	.....	4	4	7	3	2	7	1	1	6	6	4	7	16
	Female.....	32	4	2	1	4	3	5	3	8	8	6	5	6	11	6	14	10	11
Ripley.....	Total.....	41	9	3	2	.....	5	3	7	12	4	11	7	5	10	8	8	10	17
	Male.....	26	7	1	.....	.....	3	2	4	6	2	5	3	2	6	4	4	7	9
	Female.....	16	2	2	2	.....	2	1	3	6	2	6	4	3	4	2	4	3	8
Rush.....	Total.....	42	9	5	3	1	6	6	9	5	6	10	12	13	8	12	13	11	19
	Male.....	26	7	3	1	1	2	2	3	3	1	2	3	4	4	0	5	3	8
	Female.....	16	2	2	2	.....	4	4	6	2	5	8	9	9	4	0	8	8	11
Scott.....	Total.....	23	2	.....	1	.....	2	2	5	.....	4	3	1	4	6	6	5	2	12
	Male.....	12	1	.....	.....	.....	1	1	2	.....	1	.....	.....	2	1	3	3	2	3
	Female.....	10	1	.....	1	.....	1	1	3	.....	3	3	.....	2	5	3	2	.....	9

shelby.....	63	7	2	3	6	8	13	14	5	11	13	19	15	21	14	24
Total.....	30	2	2	2	2	2	9	5	2	2	4	7	11	13	6	9
Male.....	33	1	1	1	1	1	4	10	3	6	9	12	4	8	9	15
Female.....																
Spencer.....	58	12	5	6	1	10	3	10	8	9	6	10	4	6	6	16
Total.....	31	5	4	4	1	4	3	6	2	2	2	3	2	2	2	7
Male.....	27	1	3	3	...	6	5	9	6	6	4	7	2	4	3	9
Female.....																
Starks.....	29	5	1	1	3	2	5	5	2	2	5	7	3	6	9	9
Total.....	19	3	...	...	...	...	...	...	...	...	...	...	...	...	...	3
Male.....	10	2	...	...	...	...	...	...	...	...	...	...	...	...	...	6
Female.....																
Steuben.....	31	12	7	2	...	4	2	10	5	2	5	5	11	4	12	20
Total.....	22	7	...	...	...	...	...	...	...	...	...	...	...	...	...	8
Male.....	9	5	...	...	...	...	...	...	...	...	...	...	...	...	...	12
Female.....																
St. Joseph.....	320	25	14	7	18	21	27	40	29	38	33	43	46	49	43	59
Total.....	197	14	9	2	13	13	13	18	13	19	16	27	19	25	25	29
Male.....	123	11	5	5	4	5	8	17	16	19	16	16	27	24	18	30
Female.....																
Sullivan.....	117	18	10	2	4	8	6	12	21	22	16	11	13	16	21	20
Total.....	71	4	6	1	2	4	3	6	8	13	7	7	6	9	12	9
Male.....	14	4	1	2	4	3	6	8	9	9	9	4	7	7	9	11
Female.....																
Switzerland.....	32	3	1	4	1	6	6	5	4	3	7	3	5	8	13	17
Total.....	19	2	1	...	...	...	...	...	...	...	...	...	...	...	...	6
Male.....	13	1	...	...	...	...	...	...	...	...	...	...	...	...	...	11
Female.....																
Tippecanoe.....	90	13	5	4	5	10	7	12	18	24	26	29	27	31	42	61
Total.....	45	6	3	2	4	5	2	4	15	13	13	15	19	19	21	33
Male.....									10	5	12	11	12	12	21	28
Female.....									5	13	13	11	12	12	31	
Tipson.....	51	6	4	2	3	3	9	8	10	9	6	4	7	11	6	12
Total.....	30	3	3	1	2	3	6	3	5	6	3	3	6	4	4	4
Male.....	21	3	1	2	...	...	...	...	...	...	...	...	...	...	...	8
Female.....																
Union.....	13	2	...	...	...	...	...	...	...	...	...	...	...	...	...	7
Total.....	9	1	...	...	...	...	...	...	...	...	...	...	...	...	...	4
Male.....									4	1	...	...	...	...	...	3
Female.....									1	...	...	...	...	...	...
Vanderburgh.....	247	33	22	12	14	25	38	57	59	49	45	71	54	59	82	61
Total.....	130	16	14	5	11	17	20	31	26	28	27	44	37	29	45	33
Male.....									33	31	31	27	17	30	37	28
Female.....	127	16	8	7	9	14	18	26	33	21	21	27	27	30	37	
Vermillion.....	97	12	3	5	1	4	11	7	12	6	10	9	5	11	11	13
Total.....	59	8	3	1	2	4	7	4	6	2	2	4	3	6	8	3
Male.....																
Female.....	38	4	1	1	...	...	...	...	...	...	...	...	...	...	...	10

TABLE No. 3—Continued.

COUNTIES.	Sex.	0	1	2	3	4	5	10	15	20	25	30	35	40	45	50	55	60	65	70
Vigo.....	Total.....	257	28	29	12	9	25	14	27	61	54	44	57	55	43	66	66	60	58	65
	Male.....	146	13	17	4	3	10	9	18	24	30	24	34	34	27	42	36	34	46	50
	Female.....	109	15	12	8	6	15	5	9	37	24	20	23	21	16	24	30	26	40	70
Wabash.....	Total.....	58	6	4	.....	1	5	5	8	15	8	7	10	5	11	17	18	17	22	23
	Male.....	40	4	3	.....	1	3	3	3	8	1	3	6	3	5	14	8	12	14	14
	Female.....	18	2	1	.....	.....	2	2	5	7	7	4	4	2	6	3	10	5	.....	.....
Warren.....	Total.....	28	10	1	1	.....	3	2	1	1	3	2	3	3	3	5	4	9	8	8
	Male.....	13	6	.....	.....	.....	3	2	1	.....	2	2	2	2	.....	3	2	2	6	4
	Female.....	15	4	1	1	.....	.....	.....	.....	1	1	.....	1	1	.....	2	2	7	2	4
Warrick.....	Total.....	67	13	7	5	1	8	1	16	7	13	9	13	7	5	5	11	17	17	17
	Male.....	39	9	4	2	.....	3	.....	2	5	5	5	6	2	2	4	7	6	8	9
	Female.....	28	4	3	3	1	5	1	14	2	8	4	8	5	3	1	4	11	9	9
Washington.....	Total.....	53	5	6	1	1	6	3	9	11	11	8	13	3	7	8	16	18	23	23
	Male.....	35	2	4	.....	1	3	1	4	5	5	4	9	.....	4	4	7	10	14	14
	Female.....	18	3	2	1	.....	3	2	5	6	6	4	4	3	3	4	9	8	9	9
Wayne.....	Total.....	87	13	9	3	4	11	5	5	20	22	10	26	25	38	33	26	39	47	47
	Male.....	55	10	6	.....	2	4	2	4	10	12	6	14	16	15	19	14	17	21	21
	Female.....	32	3	3	3	2	7	3	4	10	10	4	12	9	23	13	12	22	26	26
Wells.....	Total.....	47	10	4	1	.....	6	2	2	6	3	5	7	8	11	11	9	13	10	10
	Male.....	26	4	2	1	.....	3	1	1	3	2	2	4	3	7	6	5	8	6	6
	Female.....	21	6	2	.....	.....	3	1	1	3	1	3	3	5	4	5	4	5	4	4
White.....	Total.....	42	2	3	1	.....	4	3	7	6	5	7	5	5	7	5	6	8	19	19
	Male.....	34	1	3	.....	.....	1	1	5	3	1	1	1	2	3	4	2	3	10	10
	Female.....	8	1	.....	1	.....	3	2	2	3	4	6	4	3	4	1	4	5	9	9

TABLE No. 3—Continued.

Deaths in Indiana by Months, Counties, Ages, Sex, Color, Nationality and Conjugal Condition, 1908.

COUNTIES.	Sex.		70 to 75	75 to 80	80 to 90	90 and over.	Unknown.	White.	Colored.	American.	Foreign.	Not Reported.	Single.	Married.	Widowed.	Not Reported.	Total.
Adams.....	Total.....		20	10	12	3	...	214	1	191	21	3	109	71	35	...	215
	Male.....		8	7	9	2	...	116	1	105	11	1	61	40	16	...	117
Allen.....	Female.....		12	3	3	1	...	98	...	86	10	2	48	31	19	...	98
	Total.....		85	73	101	15	...	1,162	12	901	256	17	510	406	262	6	1,174
Bartholomew.....	Male.....		32	38	45	6	...	586	5	445	135	11	282	225	80	4	561
	Female.....		33	35	56	9	...	576	7	456	121	6	228	181	172	2	563
Benton.....	Total.....		19	24	23	7	...	313	7	290	25	5	127	131	59	3	330
	Male.....		12	13	10	2	...	159	2	146	15	2	71	72	19	1	163
Blackford.....	Female.....		7	11	13	5	...	154	3	144	10	3	56	59	40	2	157
	Total.....		12	8	7	2	...	116	...	104	11	1	69	36	20	1	116
Boone.....	Male.....		5	3	2	1	...	63	...	61	2	...	35	20	8	...	63
	Female.....		5	6	5	1	...	53	...	43	9	1	24	16	12	1	53
Brown.....	Total.....		20	13	8	1	1	179	...	163	8	8	80	59	38	2	179
	Male.....		11	7	6	...	1	102	...	91	5	6	46	39	15	2	102
Boone.....	Female.....		9	6	2	1	...	77	...	72	3	2	34	20	23	...	77
	Total.....		34	39	37	5	...	339	2	331	5	5	112	159	69	1	341
Boone.....	Male.....		17	23	18	2	...	174	1	169	2	3	66	83	39	1	175
	Female.....		17	16	19	3	...	165	1	162	2	2	46	76	44	...	166
Boone.....	Total.....		6	5	9	2	...	85	...	81	1	3	34	39	12	...	85
	Male.....		4	1	5	2	...	44	...	41	1	2	22	17	5	...	44
Boone.....	Female.....		2	4	4	...	...	41	...	40	...	1	12	22	7	...	41
	Total.....		23	18	25	2	...	262	...	245	12	7	95	108	58	1	263
Carroll.....	Male.....		11	9	11	1	...	140	...	128	6	0	64	64	22	...	140
	Female.....		12	9	14	1	...	123	...	115	6	1	41	44	36	...	123

Cass.....	Total.....	50	48	44	7	5	593	4	486	76	35	208	239	129	21	597
	Male.....	24	24	17	3	2	303	1	243	45	16	115	134	43	12	304
	Female.....	26	24	27	4	3	290	3	243	31	19	93	105	86	9	293
Clark.....	Total.....	32	29	48	4	2	407	65	407	54	11	190	171	106	5	472
	Male.....	16	20	21	1	1	227	30	214	35	8	110	100	42	5	257
	Female.....	16	9	27	3	1	180	35	193	19	3	80	71	64	...	215
Clay.....	Total.....	25	22	29	4	6	437	6	377	50	16	200	162	74	7	443
	Male.....	8	11	11	2	5	220	2	183	27	12	111	83	23	5	222
	Female.....	17	11	18	2	1	217	4	194	23	4	89	79	51	2	221
Clinton.....	Total.....	29	28	31	2	2	406	3	396	8	5	166	155	85	3	409
	Male.....	13	14	16	...	2	211	1	205	5	2	96	84	29	3	212
	Female.....	16	14	15	2	...	195	2	191	3	3	70	71	56	...	197
Crawford.....	Total.....	12	5	14	4	3	161	...	152	1	8	65	63	33	...	161
	Male.....	9	2	6	2	3	85	...	79	1	5	37	36	12	...	85
	Female.....	3	3	8	2	...	76	...	73	...	...	28	27	21	...	76
Davies.....	Total.....	26	20	27	1	...	341	6	329	15	3	160	125	61	1	347
	Male.....	14	9	20	...	...	192	4	185	10	1	95	76	25	...	196
	Female.....	12	11	7	1	...	149	2	144	5	2	65	49	36	1	151
Dearborn.....	Total.....	26	31	36	4	2	292	4	217	69	10	95	112	85	...	296
	Male.....	18	15	12	2	2	155	3	115	35	8	58	66	30	4	158
	Female.....	8	16	24	2	...	137	1	102	34	2	37	46	55	...	138
Decatur.....	Total.....	23	21	33	6	1	299	2	247	14	10	104	100	64	3	271
	Male.....	9	9	15	3	1	136	...	123	5	8	57	55	21	3	136
	Female.....	14	12	18	3	...	133	2	124	9	2	47	45	43	...	135
DeKalb.....	Total.....	30	25	30	5	...	316	1	289	24	4	106	129	78	4	317
	Male.....	18	15	14	4	...	166	...	149	15	2	60	71	33	2	166
	Female.....	12	10	16	1	...	150	1	140	9	2	46	58	45	2	151
Delaware.....	Total.....	44	33	42	6	...	655	38	662	21	10	320	237	134	2	693
	Male.....	27	12	23	5	...	342	22	345	13	6	176	121	65	2	364
	Female.....	17	21	19	1	...	313	16	317	8	4	144	116	69	...	329
Dubuois.....	Total.....	12	8	16	3	...	212	...	181	31	...	101	72	39	...	212
	Male.....	10	5	8	1	...	105	...	87	18	...	48	37	20	...	105
	Female.....	2	3	8	2	...	107	...	94	13	...	53	35	19	...	107
Elkhart.....	Total.....	49	50	50	11	1	663	2	599	50	16	256	264	142	3	665
	Male.....	25	30	31	3	1	346	...	302	31	13	145	139	59	3	246
	Female.....	24	20	19	8	...	317	2	297	19	3	111	125	83	...	319

TABLE No. 3—Continued.

COUNTIES.	Sex.	70 to 75	75 to 80	80 to 90	90 and over.	Unknown.	White.	Colored.	American.	Foreign.	Not Reported.	Single.	Married.	Widowed.	Not Reported.	Total
Fayette.....	Total	15	15	20	1	1	192	9	183	14	4	81	80	40	.....	201
	Male	9	9	14	1	1	101	6	99	7	3	49	43	15	.....	107
Flord.....	Female	6	6	6	.....	.....	91	3	84	7	.....	32	37	25	.....	94
	Total	46	31	46	8	2	438	53	399	83	9	188	172	127	4	491
Fountain.....	Male	25	14	20	1	2	228	33	212	45	4	111	107	39	4	261
	Female	21	17	26	7	.....	210	20	187	38	5	77	65	88	.....	230
Franklin.....	Total	15	15	28	3	.....	258	.....	240	13	5	102	113	42	1	258
	Male	10	8	15	1	.....	140	.....	130	6	4	53	71	15	1	140
Fulton.....	Female	5	7	13	2	.....	118	.....	110	7	1	49	42	27	.....	118
	Total	13	21	27	4	.....	218	.....	174	42	2	87	77	53	1	218
Gibson.....	Male	5	9	18	2	.....	104	.....	73	27	2	41	40	15	1	104
	Female	8	12	9	2	.....	114	.....	99	15	.....	46	37	31	.....	114
Grant.....	Total	22	16	12	1	1	201	.....	193	7	1	68	88	42	3	201
	Male	10	9	9	.....	.....	105	.....	99	5	.....	40	46	17	2	105
Greene.....	Female	12	7	3	.....	.....	96	.....	94	2	.....	28	42	25	1	96
	Total	28	24	30	4	4	396	28	363	29	10	210	129	81	2	422
Hamilton.....	Male	13	14	13	3	.....	220	10	211	16	3	129	77	23	1	230
	Female	15	10	17	1	1	176	16	172	13	7	81	52	58	1	192
Harrison.....	Total	84	57	51	12	.....	726	37	710	34	19	298	255	200	10	763
	Male	52	38	29	4	.....	432	22	413	23	16	176	132	88	8	454
Hickman.....	Female	22	19	22	8	.....	294	15	296	11	3	122	103	82	2	309
	Total	25	23	26	2	1	451	2	424	24	5	248	123	72	5	453
Jefferson.....	Male	13	18	18	1	1	220	2	199	19	4	123	76	23	.....	222
	Female	12	15	8	1	.....	231	.....	225	5	1	120	57	49	6	231
Lincoln.....	Total	17	20	47	4	.....	332	8	330	5	5	127	127	80	6	340
	Male	7	21	30	1	.....	190	6	189	4	3	70	63	38	5	196
Madison.....	Female	10	9	17	3	.....	142	2	141	1	2	57	44	42	1	144

Hancock	Total	24	23	23	22	2	279	3	272	8	2	120	103	58	1	282
	Male	15	9	12	2	2	152	3	144	6	2	70	58	23	1	152
	Female	9	13	10	2	2	127	3	128	2	...	50	45	35	1	130
Harrison	Total	22	26	20	2	2	237	...	208	24	5	94	82	57	4	237
	Male	12	11	8	1	2	121	...	110	8	3	54	40	26	1	121
	Female	10	15	12	1	1	116	...	98	16	2	40	42	31	3	116
Hendricks	Total	29	24	40	4	2	287	7	280	8	6	119	105	69	1	294
	Male	14	13	25	2	2	149	2	145	4	2	63	60	27	1	151
	Female	15	11	15	2	2	138	5	135	4	4	56	45	42	1	143
Henry	Total	32	25	36	5	5	363	7	358	6	6	137	142	81	10	370
	Male	18	12	19	3	3	183	5	181	2	5	74	77	32	5	188
	Female	14	13	17	2	2	180	2	177	4	1	63	65	49	5	182
Howard	Total	29	30	29	4	1	435	14	424	20	5	200	171	77	1	449
	Male	18	16	12	1	1	239	7	233	11	3	120	94	31	1	246
	Female	11	14	17	3	1	196	7	192	9	2	80	77	46	1	203
Huntington	Total	29	27	41	6	6	364	1	331	28	6	127	143	88	7	365
	Male	12	18	19	2	3	193	...	175	14	4	72	81	34	6	193
	Female	17	9	22	4	4	171	1	156	14	2	55	62	54	1	172
Jackson	Total	26	15	28	2	2	369	3	344	25	3	175	130	63	4	372
	Male	12	7	15	1	1	185	3	174	14	...	94	67	25	2	188
	Female	14	8	13	1	1	184	...	170	11	3	81	63	38	2	184
Jasper	Total	18	6	11	4	4	158	...	137	19	2	61	68	29	...	158
	Male	8	4	7	2	2	88	...	73	14	1	36	41	11	...	88
	Female	10	2	4	2	2	70	...	64	5	1	25	27	18	...	70
Jay	Total	29	17	28	2	2	320	6	312	10	4	139	124	61	2	326
	Male	19	13	14	2	2	176	2	168	7	3	76	71	29	2	178
	Female	10	4	14	...	...	144	4	144	3	1	63	53	32	...	148
Jefferson	Total	35	30	46	8	2	350	16	308	50	8	119	144	98	5	366
	Male	18	17	23	3	1	181	12	168	19	6	72	90	28	3	193
	Female	17	13	23	5	1	169	4	140	31	2	47	54	70	2	173
Jennings	Total	25	20	18	4	4	200	5	184	18	3	73	76	52	4	205
	Male	13	13	8	1	1	98	5	92	8	3	38	43	20	3	103
	Female	12	7	10	3	3	102	...	92	10	...	35	33	32	2	102
Johnson	Total	26	19	21	2	2	272	5	264	7	6	127	96	54	...	277
	Male	6	9	9	1	1	115	5	116	4	...	58	49	13	...	120
	Female	20	10	12	1	1	157	...	148	3	6	69	47	41	...	157

TABLE No. 3—Continued.

COUNTIES.	Sex.	70 or 75	75 80	80 90	90 and over.	Unknown.	White.	Colored.	American.	Foreign.	Not Reported.	Single.	Married.	Widowed.	Not Reported.	Total.
Knox.....	Total.....	46	30	29	1	2	594	8	546	45	11	307	100	100	5	602
	Male.....	25	16	13	1	2	298	5	276	21	6	173	63	34	3	303
	Female.....	21	14	16	1	2	296	3	270	24	5	134	37	66	2	299
Kosciusko.....	Total.....	36	25	23	5	1	381	1	343	12	6	128	149	81	3	381
	Male.....	22	13	27	1	1	199	1	179	7	3	76	84	28	1	199
	Female.....	14	12	16	4	1	172	1	164	5	3	52	65	53	2	172
Lagrange.....	Total.....	23	15	23	2	1	197	1	185	10	2	69	81	46	1	197
	Male.....	13	7	12	1	1	102	1	94	7	1	42	41	18	1	102
	Female.....	10	8	11	1	1	95	1	91	3	1	27	40	28	1	95
Lake.....	Total.....	37	25	33	5	8	1,036	8	680	305	50	626	283	96	38	1,044
	Male.....	16	13	18	2	7	644	5	408	199	44	399	173	39	38	649
	Female.....	21	12	15	3	1	392	3	272	106	6	227	110	57	1	386
Laporte.....	Total.....	46	44	51	10	3	587	15	407	175	20	290	207	137	19	602
	Male.....	23	23	27	9	2	327	11	218	104	16	160	118	58	12	338
	Female.....	23	21	24	7	1	260	4	189	71	4	86	89	79	7	264
Lawrence.....	Total.....	22	38	17	3	1	417	3	403	10	7	189	144	87	1	430
	Male.....	11	15	16	1	1	195	2	188	7	2	104	67	29	1	197
	Female.....	11	23	11	2	1	222	1	215	3	5	85	77	61	1	223
Madison.....	Total.....	48	31	42	7	4	747	17	718	30	16	350	277	139	1	764
	Male.....	28	15	25	3	3	394	9	380	19	6	210	148	46	1	405
	Female.....	20	16	17	4	1	353	8	338	11	10	140	129	90	1	359
Marion.....	Total.....	216	205	184	19	4	3,184	555	3,218	445	56	1,523	1,363	830	83	3,739
	Male.....	122	101	85	8	3	1,777	283	1,758	270	31	901	809	327	22	2,059
	Female.....	94	104	99	11	1	1,407	273	1,460	175	25	622	554	493	11	1,680
Marshall.....	Total.....	34	20	31	1	1	264	2	259	25	12	115	116	62	3	266
	Male.....	14	10	17	1	1	151	2	131	14	8	61	73	18	1	153
	Female.....	20	10	14	1	1	143	1	128	11	4	54	43	44	2	147

Martin.....	Total.....	11	9	7	.....	173	169	3	1	85	62	26	.....	173
	Male.....	6	1	4	.....	85	82	2	1	52	26	7	.....	85
Miami.....	Female.....	5	8	3	.....	88	87	1	.....	33	36	19	.....	88
	Total.....	27	31	37	9	365	326	26	15	127	147	90	3	367
Male.....	16	16	6	.....	187	187	16	6	67	89	32	58	2	190
	Female.....	9	15	2	3	178	159	10	9	60	58	53	1	178
Monroe.....	Total.....	21	21	24	5	308	305	8	5	130	125	57	6	318
	Male.....	14	11	13	2	161	156	5	4	68	70	22	5	165
Female.....	7	10	11	3	1	147	149	3	1	62	55	35	1	153
	Total.....	40	33	37	4	377	366	10	4	122	162	89	7	390
Montgomery.....	Male.....	26	21	14	1	197	191	5	4	70	90	37	3	200
	Female.....	14	12	23	3	180	175	5	.....	52	72	52	4	180
Morgan.....	Total.....	20	23	25	4	318	311	5	3	140	117	60	2	319
	Male.....	13	13	8	1	162	159	2	1	79	58	24	1	162
Female.....	7	10	17	3	156	152	3	2	61	59	36	1	1	157
	Total.....	5	9	12	1	98	91	7	1	38	36	24	1	99
Newton.....	Male.....	3	4	3	1	44	41	3	.....	17	19	7	1	44
	Female.....	2	5	9	.....	54	50	4	1	21	17	17	.....	55
Noble.....	Total.....	27	18	41	3	319	283	33	4	129	124	65	2	320
	Male.....	20	9	26	3	186	165	19	2	74	79	31	2	186
Female.....	7	9	15	.....	133	118	14	2	55	45	34	.....	.....	134
	Total.....	3	5	8	2	63	60	6	2	30	23	14	1	68
Ohio.....	Male.....	1	.....	2	1	28	27	2	2	14	14	2	1	31
	Female.....	2	5	6	1	35	33	4	.....	16	9	12	.....	37
Orange.....	Total.....	11	10	11	4	224	216	5	5	108	83	33	2	226
	Male.....	8	7	6	2	111	105	3	4	56	36	18	2	112
Female.....	3	3	5	2	1	113	111	2	1	52	47	15	.....	114
	Total.....	17	10	18	2	156	153	4	2	63	65	31	.....	159
Cren.....	Male.....	13	5	10	2	87	86	3	1	44	31	15	.....	90
	Female.....	4	5	8	.....	69	67	1	.....	19	34	16	.....	69
Paris.....	Total.....	13	27	30	5	286	266	17	9	119	106	65	2	292
	Male.....	8	11	15	2	152	140	7	5	76	48	28	2	152
Female.....	5	16	15	3	1	134	126	10	4	43	58	36	.....	140
	Total.....	19	15	17	6	203	164	44	3	101	69	41	.....	211
Perry.....	Male.....	8	10	10	5	98	75	25	3	49	39	15	.....	103
	Female.....	11	5	7	1	105	89	19	.....	52	30	26	.....	108

TABLE No. 3—Continued.

COUNTIES.	Sex.	75 to 79		80 to 89		90 and over.	Unknown.	White.	Colored.	American.	Foreign.	Not Rep.	Single.	Married.	Widow.	Not Rep.	Total.
		75 to 79	80 to 89	80 to 89	90 and over.												
Fitz	Total	11	18	15	3	1	286	3	274	9	6	136	106	46	1	289	
	Male	10	16	7	1	0	137	2	135	6	4	65	55	18	1	139	
Porter	Total	23	29	27	4	3	246	2	244	69	11	78	101	60	9	248	
	Male	14	15	15	3	3	134	2	132	33	11	46	61	21	8	136	
Powers	Total	16	18	11	3	3	283	41	242	18	2	152	93	55	4	304	
	Male	5	8	5	1	2	135	21	114	8	1	63	39	22	2	156	
Pulaski	Total	11	10	6	2	1	128	20	108	17	1	59	54	33	2	148	
	Male	6	11	20	2	1	143	0	143	12	2	63	50	30	0	143	
Putnam	Total	3	5	5	2	0	80	0	80	6	12	23	25	15	0	80	
	Male	3	5	5	2	0	63	0	63	7	0	23	25	15	0	63	
Randolph	Total	21	24	25	3	1	288	5	283	8	2	113	121	59	0	293	
	Male	11	11	12	1	1	140	2	138	3	1	73	59	19	0	151	
Ripley	Total	10	13	13	2	0	139	3	136	5	2	40	62	40	0	142	
	Male	36	23	35	1	1	247	5	240	9	3	130	145	75	2	352	
Rush	Total	17	11	16	0	0	156	5	152	7	2	64	67	29	1	161	
	Male	19	12	19	1	1	191	0	188	2	1	66	78	46	1	191	
Scott	Total	32	23	29	2	1	247	1	246	54	4	96	91	60	1	248	
	Male	9	11	17	1	1	120	1	119	27	2	58	47	16	0	121	
Tenn	Total	23	12	12	1	0	127	0	127	97	32	38	44	44	1	127	
	Male	16	23	25	4	3	247	8	246	7	2	94	97	63	1	255	
Total	Total	7	10	12	2	3	118	4	119	2	1	55	48	19	0	122	
	Male	9	13	13	2	0	129	4	127	5	1	39	49	44	1	133	
Total	Total	5	8	0	3	0	108	0	100	1	2	42	39	21	1	103	
	Male	3	3	4	2	0	45	0	43	1	1	20	18	7	0	45	
Total	Total	2	5	1	0	0	58	0	57	0	1	23	21	14	1	64	
	Male	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Shelby.....	Total Male Female	34 20 14	33 19 14	36 17 19	2 1 1	343 162 181	11 7 4	326 153 173	22 12 10	6 4 2	135 71 64	131 99 63	83 26 57	5 3 2	354 169 185
Spencer.....	Total Male Female	13 6 7	13 8 5	22 10 12	7 4 3	233 111 122	20 8 12	230 107 123	23 11 11	.....	119 63 56	90 46 44	42 9 33	2 1 1	253 119 134
Stark.....	Total Male Female	13 6 7	7 4 3	7 7 7	.....	124 77 47	1 1	100 59 41	23 18 5	2 1 1	54 36 18	46 30 16	25 12 13	.....	125 78 47
Steubens.....	Total Male Female	14 9 5	19 12 7	17 7 7	3 2 1	191 99 92	.....	180 92 88	6 3 3	5 4 1	72 39 33	77 43 34	41 16 25	1 1	191 99 92
St. Joseph.....	Total Male Female	62 37 25	70 39 31	52 23 29	11 6 5	1,034 569 465	12 6 6	804 440 384	229 130 99	13 5 8	546 328 218	325 179 146	168 64 104	7 4 3	1,046 575 471
Sullivan.....	Total Male Female	23 9 14	16 9 7	19 7 12	4 2 2	409 213 196	1 1	380 194 186	20 14 6	10 5 5	207 122 85	144 72 73	50 13 37	9 6 3	410 213 197
Switzerland.....	Total Male Female	15 8 7	14 7 7	28 14 14	2 1 1	188 102 86	1	181 99 82	7 3 4	1	78 48 30	68 31 37	43 23 20	.....	189 102 87
Tippesaw.....	Total Male Female	74 38 36	66 36 30	53 27 26	10 3 7	656 350 306	10 3 7	534 284 250	114 54 60	18 15 3	237 143 94	238 131 107	182 72 110	9 7 2	666 353 313
Tipton.....	Total Male Female	14 7 7	18 10 8	16 10 6	.....	213 117 96	.....	200 110 90	7 4 3	6 3 3	97 56 41	75 40 35	41 21 20	.....	213 117 96
Union.....	Total Male Female	6 5 1	11 5 6	10 5 5	3 1 2	72 42 30	3 1 2	69 39 30	5 3 2	1	23 15 8	30 17 13	20 9 11	2 2	75 43 32
Vanderburgh.....	Total Male Female	63 31 32	74 33 41	50 22 28	9 5 4	1,057 547 510	1 89 74	980 498 482	194 109 85	46 29 17	549 299 250	419 240 179	234 79 155	18 18	1,220 636 584
Vermilion.....	Total Male Female	19 11 8	14 11 3	16 9 7	4 3 1	271 154 117	7 1 6	258 142 116	18 12 6	2 1 1	151 91 60	85 42 43	40 20 20	2 2	278 155 123

TABLE No. 3—Continued.

COUNTIES.	Sex.	70	75	80	85	90	Unknown.	White.	Colored.	American.	Foreign.	Not Reported.	Single.	Married.	Widowed.	Not Reported.	Total.
		75	80	85	90	and over.											
Vigo.....	Total.....	70	57	68	8	2	1,127	71	1,045	117	36	532	404	242	20	1,198	
	Male.....	37	35	32	6	1	621	42	570	71	22	311	244	94	14	663	
	Female.....	33	22	36	3	1	506	29	475	46	14	221	160	148	6	535	
Wabash.....	Total.....	22	30	34	5	3	308	3	291	15	5	108	130	71	2	311	
	Male.....	16	19	13	1	1	178	2	170	8	2	73	77	28	2	180	
	Female.....	6	11	21	4	2	130	1	121	7	3	35	53	43	...	131	
Warren.....	Total.....	13	18	8	2	...	131	...	122	6	3	55	42	33	1	131	
	Male.....	6	5	4	1	...	69	...	63	4	2	31	31	6	1	69	
	Female.....	7	13	4	1	...	62	...	59	2	1	24	11	27	...	62	
Warrick.....	Total.....	24	19	17	2	...	273	11	265	16	3	130	96	58	...	284	
	Male.....	14	11	8	1	...	136	6	132	7	3	70	51	21	...	142	
	Female.....	10	8	9	1	...	137	5	133	9	...	60	45	37	...	142	
Washington.....	Total.....	14	22	25	4	1	267	...	262	2	3	113	93	61	...	267	
	Male.....	7	14	9	1	...	149	...	139	1	2	71	51	20	...	142	
	Female.....	7	8	16	3	...	125	...	123	1	1	42	42	41	...	125	
Wayne.....	Total.....	52	44	63	7	...	552	36	536	46	6	212	237	124	5	588	
	Male.....	22	22	27	3	...	290	18	281	25	2	126	129	47	4	308	
	Female.....	20	22	36	4	...	262	18	255	21	4	84	108	87	1	280	
Wells.....	Total.....	21	26	20	5	...	227	...	214	10	3	83	93	51	...	227	
	Male.....	12	14	8	3	...	117	...	110	6	1	44	57	16	...	117	
	Female.....	13	12	12	2	...	110	...	104	4	2	39	36	35	...	110	
White.....	Total.....	13	18	26	3	...	195	...	176	16	3	77	77	39	2	195	
	Male.....	6	9	15	...	...	103	...	92	9	2	55	53	13	1	103
	Female.....	7	9	11	3	...	92	...	84	7	1	22	22	26	1	92	

Whitley	Total	17	22	24	1	188	168	14	6	73	68	47	188
Male	Male	7	14	16	1	100	90	8	2	40	38	22	100
Female	Female	10	8	8	1	88	78	6	4	33	30	25	88
Total males		1,440	1,276	1,380	176	18,442	16,702	2,030	462	8,794	7,304	2,828	268
Total females		1,210	1,159	1,366	216	16,362	15,206	1,545	277	6,491	5,832	4,603	104
Grand total		2,650	2,435	2,746	392	34,804	31,910	3,575	739	15,285	13,136	7,431	372
													36,224

TABLE No. 3—Continued.

COUNTIES.	Sex.	70 to 75				76 to 80		80 to 90		90 and over.		Unknown.	White.	Colored.	American.	Foreign.	Not Reported.	Single.	Married.	Widowed.	Not Reported.	Total.
		70 to 75	76 to 80	80 to 85	85 to 90	90 to 95	95 and over.															
Knox.....	Total.....	46	20	29	1	2	594	8	546	45	307	190	100	5	602							
	Male.....	25	16	13	1	2	298	5	276	21	173	93	34	3	303							
Kosciusko.....	Female.....	21	14	16	1	2	296	3	270	24	134	97	66	2	299							
	Total.....	36	25	43	5	4	361	13	343	12	128	149	81	3	361							
Lagrange.....	Male.....	22	13	27	1	1	189	7	179	7	76	84	28	1	189							
	Female.....	14	12	16	4	3	172	6	164	5	52	65	53	2	172							
Lake.....	Total.....	23	15	23	2	1	197	10	185	10	69	81	46	1	197							
	Male.....	13	7	12	1	1	102	7	94	7	42	41	18	1	102							
Laporte.....	Female.....	10	8	11	1	1	95	3	91	3	27	40	28	1	95							
	Total.....	37	25	33	5	8	1,036	8	699	305	626	283	96	39	1,044							
Lawrence.....	Male.....	16	13	18	2	7	644	5	406	199	399	173	39	38	649							
	Female.....	21	12	15	3	1	392	3	293	106	227	110	57	1	395							
Madison.....	Total.....	46	44	51	10	3	587	15	407	175	239	207	137	19	602							
	Male.....	23	23	27	3	2	327	11	218	104	16	118	58	12	338							
Marion.....	Female.....	23	21	24	7	1	260	4	189	71	89	89	79	7	264							
	Total.....	22	38	17	3	1	417	3	403	10	189	144	87	1	420							
Marshall.....	Male.....	11	15	6	1	1	195	2	188	7	104	67	26	1	197							
	Female.....	11	23	11	2	1	222	1	215	3	85	77	61	1	223							
Marion.....	Total.....	48	31	42	7	4	747	17	718	30	350	277	136	1	764							
	Male.....	28	15	25	3	3	396	9	380	19	210	148	46	1	405							
Marion.....	Female.....	20	16	17	4	1	351	8	338	11	140	129	90	1	359							
	Total.....	216	205	184	19	4	3,184	555	3,218	465	1,523	1,363	820	33	3,739							
Marshall.....	Male.....	122	101	85	8	3	1,777	282	1,758	270	809	809	327	22	2,059							
	Female.....	94	104	99	11	1	1,407	273	1,400	195	622	554	493	11	1,680							
Marshall.....	Total.....	34	20	31	1	1	294	2	259	25	115	116	62	3	276							
	Male.....	14	10	17	1	1	151	1	131	14	8	73	18	1	153							
Marshall.....	Female.....	20	10	14	1	1	143	2	128	11	64	43	44	2	147							

Martin.....	Total	11	9	7	.....	173	169	3	1	85	62	26	.....	173
	Male	6	1	4	.....	85	82	2	1	52	26	7	.....	85
Miami.....	Female	5	8	3	.....	88	87	1	.....	33	36	19	.....	88
	Total	27	31	37	.....	365	326	26	15	127	147	90	.....	367
Miami.....	Male	18	16	16	.....	187	167	16	6	67	89	33	.....	186
	Female	9	15	2	.....	178	159	10	9	60	58	58	.....	178
Monroe.....	Total	21	21	24	.....	308	305	8	5	130	125	57	.....	318
	Male	14	11	13	.....	161	156	5	4	68	70	22	.....	165
Monroe.....	Female	7	10	11	.....	147	149	3	1	62	55	35	.....	153
Montgomery.....	Total	40	33	37	.....	377	366	10	4	122	162	59	.....	390
	Male	26	21	14	.....	197	191	5	4	70	90	37	.....	200
Montgomery.....	Female	14	12	23	.....	180	175	5	.....	52	72	52	.....	180
Morgan.....	Total	20	23	25	.....	318	311	5	3	140	117	60	.....	319
	Male	13	13	8	.....	162	159	2	1	79	58	24	.....	163
Morgan.....	Female	7	10	17	.....	156	152	3	2	61	59	56	.....	157
Newton.....	Total	5	9	12	.....	96	91	7	1	38	36	24	.....	99
	Male	3	4	3	.....	44	41	3	.....	17	19	7	.....	44
Newton.....	Female	2	5	9	.....	54	50	4	1	21	17	17	.....	55
Noble.....	Total	27	18	41	.....	319	283	33	4	129	124	65	.....	320
	Male	20	9	26	.....	186	165	19	2	74	70	31	.....	186
Noble.....	Female	7	9	15	.....	133	118	14	2	55	45	34	.....	134
Ohio.....	Total	3	5	8	.....	63	60	6	2	30	23	14	.....	66
	Male	1	2	2	.....	28	27	2	2	14	14	2	.....	31
Ohio.....	Female	2	3	6	.....	35	33	4	.....	16	9	12	.....	37
Orange.....	Total	11	10	11	.....	224	216	5	5	106	83	33	.....	226
	Male	8	7	6	.....	117	105	3	4	56	36	18	.....	112
Orange.....	Female	3	3	5	.....	113	111	2	1	52	47	15	.....	114
Cwen.....	Total	17	10	18	.....	156	153	4	2	63	65	31	.....	159
	Male	13	5	10	.....	87	86	3	1	44	31	15	.....	90
Cwen.....	Female	4	5	8	.....	69	67	1	1	19	34	16	.....	69
Paris.....	Total	13	27	30	.....	296	266	17	9	119	106	65	.....	292
	Male	8	11	15	.....	152	140	7	5	76	48	28	.....	152
Paris.....	Female	5	16	15	.....	134	126	10	4	43	58	36	.....	140
Perry.....	Total	19	15	17	.....	203	164	44	3	101	69	41	.....	211
	Male	8	10	10	.....	96	75	25	3	49	39	15	.....	103
Perry.....	Female	11	5	7	.....	105	89	19	.....	52	30	26	.....	108

TABLE No. 3—Continued.

COUNTIES.	Sex.	72 to 75	75 to 80	80 to 90	90 and over.	Unknown.	White.	Colored.	Americ.	Foreign.	Not Rep.	Single.	Married.	Widow.	Not Rep.	Total.
Pike.....	Total.....	11	18	15	3	1	286	3	274	9	6	136	106	46	1	289
	Male.....	10	10	7	2	1	137	2	139	6	4	65	55	18	1	139
	Female.....	1	8	8	1	1	149	1	145	3	2	71	51	28		150
Porter.....	Total.....	23	29	27	4	3	246	2	168	69	11	78	101	60	9	248
	Male.....	14	15	15	3	3	134	2	90	35	11	46	61	21	8	136
	Female.....	9	14	12	1	1	112		78	34		32	40	39	1	112
Posey.....	Total.....	16	18	11	3	3	263	41	284	18	2	152	93	55	4	304
	Male.....	5	8	5	1	2	135	21	147	8	1	93	39	22	2	156
	Female.....	11	10	6	2	1	128	20	137	10	1	59	54	33	2	148
Pulaski.....	Total.....	6	11	20	2		143		122	19	2	63	50	30		143
	Male.....	3	6	15	2		80		66	12	2	40	25	15		80
	Female.....	3	5	5			63		56	7		23	25	15		63
Putnam.....	Total.....	21	24	25	3	1	288	5	283	8	2	113	121	59		293
	Male.....	11	11	12	1	1	140	2	148	3		73	59	19		151
	Female.....	10	13	13	2		139	3	135	5	2	40	62	40		142
Randolph.....	Total.....	36	23	35		1	347	5	340	9	3	130	145	75	2	352
	Male.....	17	11	16		1	156	5	152	7	2	64	67	29	1	161
	Female.....	19	12	19			191		188	2	1	66	78	46	1	191
Riley.....	Total.....	32	23	29	2		247	1	190	54	4	96	91	60	1	248
	Male.....	9	11	17	1		120	1	97	22	2	53	47	16		121
	Female.....	23	12	12	1		127		93	32	2	38	44	44	1	127
Rush.....	Total.....	16	23	25	4	3	247	8	246	7	2	94	97	63	1	255
	Male.....	7	10	12	2	3	118	4	119	2	1	55	46	19		122
	Female.....	9	13	13	2		129	4	127	5	1	39	49	44	1	133
Scott.....	Total.....	5	8	9	3		103		100	1	2	42	39	21	1	103
	Male.....	3	4	4	2		45		43		1	20	18	7		45
	Female.....	2	5	5	1		58		57		1	22	21	14	1	58

Shelby.....	Total	34	33	36	2	343	11	326	22	6	135	131	83	5	354
	Male	20	14	17	1	162	7	153	12	4	71	69	26	3	169
	Female	14	19	19	1	181	4	173	10	2	64	62	57	2	185
Spencer.....	Total	13	13	22	7	233	20	230	23	...	119	90	42	2	253
	Male	6	8	10	4	111	8	107	12	...	63	46	9	1	119
	Female	7	5	12	3	122	12	123	11	...	56	44	33	1	134
Stark.....	Total	13	7	7	...	124	1	100	23	2	54	46	25	...	125
	Male	6	4	7	...	77	1	59	18	1	36	30	12	...	78
	Female	7	3	...	...	47	...	41	5	1	18	16	13	...	47
Steuben.....	Total	14	19	17	3	191	...	180	6	5	72	77	41	1	191
	Male	9	12	10	2	99	...	92	3	4	39	43	16	1	99
	Female	5	7	7	1	92	...	88	3	1	33	34	25	...	92
St. Joseph.....	Total	62	70	52	11	1,034	12	804	229	13	546	325	168	7	1,046
	Male	37	36	23	6	569	6	440	130	5	328	179	64	4	575
	Female	25	31	29	5	465	6	364	99	8	218	146	104	3	471
Sullivan.....	Total	23	16	19	4	409	1	380	20	10	207	144	50	9	410
	Male	9	9	7	2	213	...	194	14	5	122	72	13	6	213
	Female	14	7	12	2	196	1	186	6	5	85	72	37	3	197
Switzerland.....	Total	15	14	28	2	188	1	181	7	1	78	68	43	...	189
	Male	8	7	14	1	102	...	99	3	...	48	31	23	...	102
	Female	7	7	14	1	86	1	82	4	1	30	37	20	...	87
Tippecanoe.....	Total	74	66	53	10	656	10	534	114	18	237	238	182	9	666
	Male	38	36	27	3	350	3	294	54	15	143	131	72	7	353
	Female	36	30	26	7	306	7	250	60	3	94	107	110	2	313
Tipton.....	Total	14	18	16	...	213	...	200	7	6	97	75	41	...	213
	Male	7	10	10	...	117	...	110	4	3	56	40	21	...	117
	Female	7	8	6	...	96	...	90	3	3	41	35	20	...	96
Union.....	Total	6	11	10	3	72	3	69	5	1	23	30	20	2	75
	Male	5	5	5	1	42	1	39	3	1	15	17	9	2	43
	Female	1	6	5	2	30	2	30	2	...	8	13	11	...	32
Vanderburgh.....	Total	63	74	50	9	1,067	163	980	194	46	549	419	234	18	1,220
	Male	31	33	22	5	547	89	498	109	29	299	240	79	18	636
	Female	32	41	28	4	510	74	482	85	17	250	179	155	...	584
Vermilion.....	Total	19	14	16	4	271	7	258	18	2	161	85	40	2	278
	Male	11	11	9	3	154	1	142	12	1	91	42	20	2	155
	Female	8	3	7	1	117	6	116	6	1	60	43	20	...	123

TABLE No. 3—Continued.

COUNTIES.	Sex.	70 to 75	75 to 80	80 to 90	90 and over.	Unknown.	White.	Colored.	American.	Foreign.	Not Reported.	Single.	Married.	Widowed.	Not Reported.	Total.
Payette.....	Total.....	15	15	20	1	1	192	9	183	14	4	81	80	40	.....	201
	Male.....	8	8	14	1	1	101	6	99	7	3	41	43	15	.....	107
	Female.....	9	6	6	.....	.....	91	3	84	7	.....	32	37	25	.....	94
Floyd.....	Total.....	46	31	46	8	2	438	53	399	83	9	188	172	127	4	491
	Male.....	25	14	20	1	2	238	33	212	45	4	111	107	88	4	261
	Female.....	21	17	26	7	.....	210	20	187	38	5	77	65	.....	.....	230
Fountain.....	Total.....	15	15	28	3	.....	258	.....	240	13	5	102	113	42	1	258
	Male.....	10	8	15	1	.....	140	.....	130	6	4	53	71	15	1	140
	Female.....	5	7	13	2	.....	118	.....	110	7	1	49	42	27	.....	118
Franklin.....	Total.....	13	21	27	4	.....	218	.....	174	42	2	87	77	53	1	218
	Male.....	5	9	18	2	.....	104	.....	75	27	2	41	40	22	1	104
	Female.....	8	12	9	2	.....	114	.....	99	15	.....	46	37	31	.....	114
Fulton.....	Total.....	22	16	12	1	.....	201	.....	183	7	1	68	88	42	3	201
	Male.....	10	9	9	1	.....	105	.....	99	5	1	40	46	17	2	105
	Female.....	12	7	3	.....	.....	96	.....	84	2	.....	28	42	25	1	96
Gibson.....	Total.....	28	24	30	4	.....	396	26	383	29	10	210	129	81	2	422
	Male.....	13	13	13	3	.....	220	10	211	16	3	129	77	23	1	220
	Female.....	15	10	17	1	.....	176	16	172	13	7	81	52	58	1	192
Grant.....	Total.....	84	57	51	12	.....	726	37	710	34	19	298	255	200	10	763
	Male.....	62	38	29	4	.....	432	22	415	23	16	176	152	118	8	454
	Female.....	22	19	22	8	.....	294	15	295	11	3	122	103	82	2	309
Greene.....	Total.....	25	23	26	2	1	451	2	424	24	5	243	133	72	5	453
	Male.....	13	8	18	1	1	230	2	199	19	4	123	76	23	.....	222
	Female.....	12	15	8	1	.....	221	.....	225	5	1	120	57	49	5	231
Hamilton.....	Total.....	17	30	47	4	.....	332	8	330	5	5	127	127	90	6	340
	Male.....	7	21	30	1	.....	190	6	189	4	3	70	83	38	5	196
	Female.....	10	9	17	3	.....	142	2	141	1	2	57	44	42	1	144

Hancock	Total	24	22	2	279	3	272	8	2	120	103	58	1	262
	Male	15	9	2	152	3	144	6	2	70	58	23	1	152
	Female	9	13	2	127	3	128	2	2	50	45	35	1	130
Harrison	Total	22	26	2	237	2	208	24	5	94	82	57	4	237
	Male	12	11	2	121	2	110	8	3	54	40	26	1	121
	Female	10	15	1	116	2	98	16	2	40	42	31	3	116
Headricks	Total	29	24	4	287	7	280	8	6	119	105	69	1	294
	Male	14	13	2	149	2	145	4	2	63	60	27	1	151
	Female	15	11	2	138	5	135	4	4	56	45	42	1	143
Henry	Total	32	25	5	363	7	356	6	6	137	142	81	10	370
	Male	18	12	3	183	5	181	2	5	74	77	32	5	188
	Female	14	13	2	180	2	177	4	1	63	65	49	5	182
Howard	Total	29	30	4	435	14	424	20	5	200	171	77	1	449
	Male	18	16	1	239	7	232	11	3	120	94	31	1	246
	Female	11	14	3	196	7	192	9	2	80	77	46	1	203
Hurtingto	Total	29	27	4	364	1	351	28	6	127	143	88	7	365
	Male	12	18	2	193	1	175	14	4	72	81	34	6	193
	Female	17	9	2	171	1	166	14	2	55	62	54	1	172
Jackson	Total	26	15	2	369	3	344	25	3	175	130	63	4	372
	Male	12	7	1	185	3	174	14	3	94	67	25	2	188
	Female	14	8	1	184	1	170	11	3	81	63	38	2	184
Jasper	Total	18	6	4	168	1	137	19	2	61	68	29	1	158
	Male	8	4	2	88	1	73	14	1	36	41	11	1	88
	Female	10	2	2	70	1	64	5	1	25	27	18	1	70
Jay	Total	29	17	2	320	6	312	10	4	139	124	61	2	326
	Male	19	13	2	176	4	168	7	3	76	71	29	2	178
	Female	10	4	1	144	2	144	3	1	63	53	32	2	148
Jefferson	Total	35	30	8	350	16	308	50	8	119	144	98	5	366
	Male	18	17	3	181	12	168	19	6	72	90	28	3	193
	Female	17	13	5	169	4	140	31	2	47	54	70	2	173
Jennings	Total	25	20	4	200	5	184	18	3	73	76	52	4	205
	Male	13	13	1	98	5	92	8	3	38	43	20	2	103
	Female	12	7	3	102	1	92	10	3	35	33	32	2	102
John R.	Total	26	19	2	272	5	264	7	6	127	96	54	1	277
	Male	6	9	1	115	5	116	4	3	58	49	13	1	120
	Female	20	10	1	157	1	148	3	6	69	47	41	1	157

TABLE No. 3—Continued.

COUNTIES.	Sex.	70 to 75		75 to 80		80 to 90		90 and over.		Unknown.	White.		Colored.	American.	Foreign.	Not Reported.	Single.	Married.	Widowed.	Not Reported.	Total.
		Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		Male.	Female.									
Knox.....	Total.....	46	30	29	25	13	16	1	2	594	8	546	45	546	305	11	307	190	100	5	602
	Male.....	25	16	13	208	5	276	21	2	296	3	270	24	270	199	6	173	93	34	3	303
Kosciusko.....	Total.....	36	25	43	36	5	1	1	1	361	343	12	343	12	10	6	128	149	81	3	361
	Male.....	22	13	27	189	1	179	7	1	189	164	5	164	5	10	3	76	84	28	1	189
Lagrange.....	Total.....	14	12	16	172	4	197	1	1	172	185	10	185	10	2	2	69	81	46	1	197
	Male.....	23	15	23	102	1	94	7	1	94	91	3	91	3	1	1	42	41	18	1	102
Lake.....	Total.....	10	8	11	95	1	1	1	1	95	8	8	8	8	3	1	27	40	28	1	95
	Male.....	37	25	33	1,036	5	1,044	2	7	1,036	8	689	305	689	305	50	626	283	96	38	1,044
Laporte.....	Total.....	16	13	18	7	2	7	2	1	644	5	406	199	44	399	44	399	173	39	38	649
	Male.....	21	12	15	392	3	392	3	1	392	3	283	106	6	227	6	227	110	57	1	396
Lawrence.....	Total.....	46	44	51	3	10	3	3	2	587	15	407	175	407	175	20	239	207	137	19	602
	Male.....	23	23	27	327	3	327	3	2	327	11	218	104	16	16	16	150	118	58	12	338
Lawrence.....	Total.....	22	38	17	260	7	260	4	1	260	4	189	71	189	71	4	89	89	79	7	264
	Male.....	11	15	6	417	3	417	3	1	417	3	403	10	403	10	7	199	144	87	1	420
Madison.....	Total.....	11	23	11	222	2	222	1	1	222	1	215	3	215	3	5	85	77	61	1	223
	Male.....	48	31	42	747	7	747	17	4	747	17	718	30	718	30	16	350	277	136	1	764
Marion.....	Total.....	28	15	25	386	3	386	9	3	386	8	380	19	380	19	6	210	148	46	1	405
	Male.....	20	16	17	351	4	351	8	1	351	8	338	11	338	11	10	140	129	90	1	359
Marshall.....	Total.....	216	205	184	3,184	19	3,184	555	4	3,184	555	3,218	465	3,218	465	56	1,523	1,363	820	33	3,739
	Male.....	122	101	85	1,777	8	1,777	283	3	1,777	283	1,758	270	1,758	270	25	901	809	327	22	2,059
Marshall.....	Total.....	94	104	99	1,407	11	1,407	273	1	1,407	273	1,460	186	1,460	186	25	622	554	493	11	1,690
	Male.....	34	20	31	264	1	264	2	1	264	2	259	25	259	25	12	115	116	62	3	26
Marshall.....	Total.....	14	10	17	151	2	151	14	8	151	2	131	14	131	14	8	61	73	18	1	153
	Female.....	20	10	14	143	1	143	1	1	143	1	128	11	128	11	4	54	43	44	2	147

Martin.....	Total	11	9	7	173	169	3	1	85	62	28	.....	173
	Male	6	1	4	85	82	2	1	52	26	7	.....	85
	Female	5	8	3	88	87	1	.....	33	36	19	.....	88
Miami.....	Total	27	31	37	365	326	26	15	127	147	90	3	367
	Male	18	16	16	187	167	16	6	67	89	32	3	189
	Female	9	15	2	178	159	10	9	60	58	58	2	178
Monroe.....	Total	21	21	24	308	305	8	5	130	125	57	6	318
	Male	14	11	13	181	156	5	4	68	70	22	5	165
	Female	7	10	11	147	149	3	1	62	55	35	1	153
Montgomery.....	Total	40	33	37	377	366	10	4	122	162	59	7	390
	Male	26	21	14	197	191	5	4	70	90	37	3	200
	Female	14	12	23	180	175	5	.....	52	72	52	4	180
Morgan.....	Total	20	23	25	318	311	5	3	140	117	60	2	319
	Male	13	13	8	162	159	2	1	79	58	24	1	162
	Female	7	10	17	156	152	3	2	61	59	36	1	157
Newton.....	Total	5	9	12	98	91	7	1	38	36	24	1	99
	Male	3	4	3	44	41	3	.....	17	19	7	1	44
	Female	2	5	9	54	50	4	1	21	17	17	.....	55
Noble.....	Total	27	18	41	319	283	33	4	129	124	65	2	320
	Male	20	9	26	186	166	19	2	74	79	31	2	186
	Female	7	9	15	133	118	14	2	55	45	34	.....	134
Ohio.....	Total	3	5	8	63	60	6	2	30	23	14	1	68
	Male	1	2	1	28	23	2	2	14	14	2	1	31
	Female	2	3	6	35	37	4	.....	16	9	12	.....	37
Orange.....	Total	11	10	11	224	216	5	5	108	83	33	2	226
	Male	8	7	6	111	105	3	4	56	36	18	2	112
	Female	3	3	5	113	111	2	1	52	47	15	.....	114
Owen.....	Total	17	10	18	156	153	4	2	63	65	31	.....	159
	Male	13	5	10	87	86	3	1	44	31	15	.....	90
	Female	4	5	8	69	67	1	1	19	34	16	.....	69
Parke.....	Total	13	27	30	286	266	17	9	119	105	65	2	292
	Male	8	11	15	152	140	7	5	76	48	26	2	152
	Female	5	16	15	134	126	10	4	43	58	39	.....	140
Perry.....	Total	19	15	17	203	164	44	3	101	69	41	.....	211
	Male	8	10	6	98	75	25	3	49	39	15	.....	103
	Female	11	5	7	105	89	19	.....	52	30	26	.....	108

TABLE No. 3—Continued.

COUNTIES.	Sex.	73 to 75	75 to 80	80 to 90	90 and over.	Unknown.	White.	Colored.	Americ.	Foreign.	Not Rep.	Single.	Married.	Widow.	Not Rep.	Total.
Pike	Total.....	11	18	15	3	1	286	3	274	9	6	136	106	46	1	289
	Male.....	10	10	7	1	1	137	2	129	6	4	65	55	18	1	139
	Female.....	1	8	8	2	1	149	1	145	3	2	71	51	28		150
Porter	Total.....	23	29	27	4	3	246	2	168	69	11	78	101	60	9	248
	Male.....	14	15	15	3	3	134	2	90	35	11	46	61	21	8	136
	Female.....	9	14	12	1		112		78	34		32	40	39	1	112
Posey	Total.....	16	18	11	3	3	263	41	284	18	2	152	93	55	4	304
	Male.....	5	8	5	1	2	135	21	147	8	1	93	39	22	2	156
	Female.....	11	10	6	2	1	128	20	137	10	1	59	54	33	2	148
Pulaski	Total.....	6	11	20	2		143		122	19	2	63	50	30		143
	Male.....	3	6	15			80		66	12	2	40	25	15		80
	Female.....	3	5	5	2		63		56	7		23	25	15		63
Putnam	Total.....	21	24	25	3		288	5	283	8	2	113	121	59		293
	Male.....	11	11	12	1	1	149	2	148	3		73	59	19		151
	Female.....	10	13	13	2		139	3	135	5	2	40	62	40		142
Randolph	Total.....	36	23	35		1	347	5	340	9	3	130	145	75	2	352
	Male.....	17	11	16		1	156	5	152	7	2	64	67	29	1	161
	Female.....	19	12	19			191		188	2	1	66	78	46	1	191
Ripley	Total.....	32	23	29	2		247	1	190	54	4	96	91	60	1	248
	Male.....	9	11	17	1	1	120	1	97	22	2	58	47	29	1	121
	Female.....	23	12	12	1		127		93	32	2	38	44	44	1	127
Rush	Total.....	16	23	25	4	3	247	8	246	7	2	94	97	63	1	255
	Male.....	7	10	12	2	3	118	4	119	2	1	55	48	19		122
	Female.....	9	13	13	2		129	4	127	5	1	39	49	44	1	133
Scott	Total.....	5	8	9	3		103		100	1	2	42	39	21	1	103
	Male.....	3	3	4	2		45		43		1	20	18	7		45
	Female.....	2	5	5	1		58		57		1	22	21	14	1	58

Shulby.....	Total	34	33	36	2	11	326	22	6	135	131	83	5	354
	Male	20	14	17	1	7	153	12	4	71	69	26	3	169
	Female	14	19	19	1	4	173	10	2	64	62	57	2	185
Spencer.....	Total	13	13	22	7	20	220	23	.....	119	90	42	2	253
	Male	6	8	10	4	8	107	12	.....	43	46	9	1	119
	Female	7	5	12	3	12	123	11	.....	56	44	33	1	134
Starke.....	Total	13	7	7	.....	1	100	23	2	54	46	25	.....	125
	Male	6	4	7	.....	1	59	18	1	26	30	12	.....	78
	Female	7	3	.....	.....	.....	41	5	.....	18	16	13	.....	47
Steuben.....	Total	14	19	17	3	1	190	6	5	72	77	41	1	191
	Male	9	12	10	2	1	92	3	4	39	43	16	1	99
	Female	5	7	7	1	.....	88	3	1	33	34	25	.....	92
St. Joseph.....	Total	62	70	52	11	1,034	804	229	13	546	325	168	7	1,046
	Male	27	30	23	6	549	440	130	5	328	179	64	4	575
	Female	25	31	29	5	465	364	99	8	218	146	104	3	471
Sullivan.....	Total	23	16	19	4	409	380	20	10	207	144	50	9	410
	Male	9	9	7	2	213	194	14	5	122	72	13	6	213
	Female	14	7	12	2	196	186	6	5	85	72	37	3	197
Switzerland.....	Total	15	14	28	2	188	181	7	1	78	68	43	.....	189
	Male	8	7	14	1	102	96	3	.....	48	31	23	.....	102
	Female	7	7	14	1	86	82	4	.....	30	37	20	.....	87
Tippessee.....	Total	74	66	53	10	656	534	114	18	237	238	182	9	666
	Male	28	26	27	7	350	284	54	16	143	131	72	7	353
	Female	38	30	26	3	306	250	60	3	94	107	110	2	313
Tipton.....	Total	14	18	16	.....	212	200	7	6	97	75	41	.....	213
	Male	7	10	10	.....	117	110	4	3	56	40	21	.....	117
	Female	7	8	6	.....	96	90	3	3	41	35	20	.....	96
Union.....	Total	6	11	10	3	72	69	5	1	23	30	20	2	75
	Male	5	6	5	1	42	39	3	.....	15	17	9	2	43
	Female	1	6	5	2	30	30	2	.....	8	13	11	.....	32
Vanderburgh.....	Total	63	74	50	9	1,087	980	194	46	549	419	224	18	1,220
	Male	31	33	22	5	547	498	109	29	299	240	79	18	636
	Female	32	41	28	4	540	482	85	17	250	179	153	.....	584
Vermilion.....	Total	19	14	16	4	271	268	18	2	151	85	40	2	278
	Male	11	11	7	3	154	142	12	1	91	42	20	2	145
	Female	8	3	7	1	117	116	6	.....	60	43	20	.....	123

TABLE No. 3—Continued.

COUNTIES.	Sex.		70 to 75	75 to 80	85 to 90	90 and over.	Unknown.	White.	Colored.	American.	Foreign.	Not Reported.	Single.	Married.	Widowed.	Not Reported.	Total.
Vigo.....	Total		70	57	68	8	2	1,127	71	1,045	117	36	532	404	242	20	1,198
	Male		37	35	32	5	1	621	42	570	71	22	311	244	94	14	663
	Female		33	22	36	3	1	506	29	475	46	14	221	160	148	6	535
Wabash.....	Total		22	30	34	5	3	308	3	291	15	5	108	130	71	2	311
	Male		16	19	13	1	1	178	2	170	8	2	73	77	28	2	180
	Female		6	11	21	4	2	130	1	121	7	3	35	53	43		131
Warren.....	Total		13	18	8	2		131		122	6	3	55	42	33	1	131
	Male		6	5	4	1		69		63	4	2	31	31	6	1	69
	Female		7	13	4	1		62		59	2	1	24	11	27		62
Warrick.....	Total		24	19	17	2		273	11	265	16	3	130	96	58		284
	Male		14	11	8	1		136	6	132	7	3	70	51	21		142
	Female		10	8	9	1		137	5	133	9		60	45	37		142
Washington.....	Total		14	22	25	4		267		262	2	3	113	93	61		267
	Male		7	14	9	1		142		139	1	2	71	51	20		142
	Female		7	8	16	3		125		123	1	1	42	42	41		125
Wayne.....	Total		52	44	63	7		552	36	536	46	6	212	237	134	5	568
	Male		32	22	27	3		290	18	281	25	2	128	126	47	4	308
	Female		20	22	36	4		262	18	255	21	4	84	108	87	1	260
Wells.....	Total		21	26	20	5		227		214	10	3	83	93	51		227
	Male		8	14	8	3		117		110	6	1	44	57	16		117
	Female		13	12	12	2		110		104	4	2	39	36	35		110
White.....	Total		13	18	26	3		195		176	16	3	77	77	39	2	196
	Male		6	9	15			103		92	9	2	2	24	13	1	103
	Female		7	9	11	3		92		84	7	1	22	43	26	1	92

Whitley	17	22	24	1	188	168	14	6	73	68	47	188
Males	7	14	16	1	100	90	8	2	40	38	22	100
Females	10	8	8	...	88	78	6	4	33	30	25	88
Total males	1,440	1,276	1,390	176	18,442	16,702	2,030	492	8,794	7,304	2,828	268
Total females	1,210	1,159	1,396	216	16,362	15,208	1,545	277	6,401	5,832	4,603	19,194
Grand total	2,650	2,435	2,776	392	34,804	31,910	3,575	739	15,295	13,136	7,431	46,138

TABLE No. 4.
Deaths in Indiana by Counties for the Year 1908.

STATE AND COUNTIES.	Population, Estimated at times School Census, 1908.	Total Deaths Reported for Year 1908.	Annual Death Rate Per 1,000 Population.	Stillbirths.	IMPORTANT AGES.					DEATHS FROM IMPORTANT CAUSES.																	
					Under 1 Year.	1 to 4 inclusive.	5 to 9 inclusive.	10 to 14 inclusive.	15 to 19 inclusive.	65 Years and over.	Pulmonary Consumption.	Other forms of Tuberculosis.	Typhoid Fever.	Diphtheria.	Croup.	Scarlet Fever.	Measles.	Whooping Cough.	Pneumonia.	Diarrhæal Diseases under 5.	Cerebro-spinal Meningitis.	Influenza.	Periperal Septicæmia.	Cancer.	Violence.	Smallpox.	
State of Indiana	2,730,144	36,224	13.2	2,029	7,714	2,172	673	585	1,018	10,703	3,825	702	885	297	18	95	209	416	2,517	1,635	154	967	163	1,739	2,527	13	2
Northern Counties.	920,585	11,747	12.7	687	2,678	626	191	205	273	3,636	975	187	243	67	5	51	43	134	828	561	59	232	40	613	923	2	
Adams.....	25,452	215	8.4	17	62	14	5	4	7	59	29	8	4	2		2		3	9	6					16	12	
Allen.....	99,579	1,174	13.1	65	243	55	21	23	31	344	91	24	17	8		5	3	15	99	51	4	18	5	60	104		
Benton.....	12,320	116	9.4	8	32	11	2	1	2	34	8	3	2	2				1	10	3	1	4	1	6	3		
Blackford.....	16,222	179	11.0	16	50	13	1	3	9	52	23	6	5	1		1	3	2	10	9	1	3	2	8	11	1	
Carroll.....	18,868	262	13.8	17	50	8	3	9	10	86	20	6	5	1		1	3	2	20	5	2	5	2	18	24	1	
Cass.....	35,221	597	16.9	21	87	22	10	7	12	188	58	9	13	7		3	1	8	47	14	5	14	3	29	53		
DeKalb.....	24,503	317	12.9	13	61	13	4	6	4	115	21	8	7	7				1	8	14	5	16	2	19	23		
Elkhart.....	47,667	665	13.9	32	129	38	10	16	10	213	44	9	9	5		3	1	7	44	36	3	14	2	43	51	5	
Fulton.....	17,689	201	11.3	14	39	10	1	3	2	66	25	4	2	2		1	1	1	7	10	13	4	2	6	5		
Grant.....	57,239	763	13.3	37	141	40	12	13	17	298	63	9	7	4	1	2		15	64	18	4	12	2	32	44		
Howard.....	29,837	449	15.0	35	105	32	8	16	9	115	57	6	15	1		1	1	6	41	10	5	11	3	20	34		
Huntington.....	30,607	385	11.9	25	65	19	4	12	10	129	24	7	8	5				1	29	12	1	16		20	22		
Jasper.....	14,499	158	10.9	5	25	6	4	2	11	52	22	2	2	2			2	1	10	5	5	1	11	12	13		
Jay.....	27,156	326	12.0	15	73	18	6	4	7	97	34	5	4	1		2	7	4	28	13	2	3	1	20	23		
Kosciusko.....	28,199	361	12.8	24	73	19	6	4	7	137	33	3	10	2		2	7	4	16	10	2	3	1	18	22		
Lagrange.....	15,449	197	12.7	8	41	14	2	4	3	81	13	3	2	2		2	2	3	12	5	9	2	2	12	7		
Lake.....	63,444	1,044	16.4	69	395	87	17	12	23	311	71	16	59	10		3	9	4	111	151	3	9	4	33	137		
Laporte.....	56,007	802	10.7	39	131	23	8	5	13	193	43	8	16	2		1	2	2	30	34	4	4	1	37	69		
Marshall.....	25,067	276	11.8	24	70	11	3	3	5	111	16	2	3	2				3	13	10	14	14	1	19	20		

Miami	29,543	367	9.0	14	64	16	4	6	10	130	33	8	8	3	2	9	27	9	3	9	3	22	29
Newton	10,612	99	9.3	4	24	17	5	5	2	37	8	3	4	2	1	3	2	11	2	1	1	8	2
Noble	22,637	330	14.1	29	77	17	1	5	9	110	10	4	7	2	1	1	3	4	19	6	5	20	21
Porter	20,965	248	11.8	11	49	10	1	3	2	100	12	1	3	1	1	3	2	5	12	6	5	12	22
Pulaski	15,928	143	8.9	10	35	11	5	2	4	46	12	1	3	1	2	2	10	6	3	5	4	8	
Starke	12,404	125	10.0	7	29	7	3	2	5	36	7	2	2	1	1	1	9	10	1	3	3	16	
St. Joseph	13,359	191	14.2	8	31	20	4	2	3	73	12	3	2	5	1	1	10	5	2	3	2	9	
St. Joseph	72,387	1,046	14.4	75	320	53	18	21	27	254	90	19	17	5	14	3	16	66	68	10	5	54	
Wabash	28,119	311	11.0	13	58	11	5	5	8	113	18	2	7	5	1	5	17	13	2	7	2	16	
Wells	24,234	227	9.3	10	47	15	6	2	2	82	20	6	5	1	2	6	14	8	1	8	11	16	
White	18,490	195	10.5	13	42	6	4	3	7	79	10	1	3	4	3	3	10	8	2	8	15	8	
Whitley	16,922	188	11.1	9	40	5	3	3	6	75	19	7	1	1	3	2	10	4	...	6	12	13	
Central Counties	1,087,413	15,176	13.9	825	3,001	898	275	203	434	4,490	1,730	349	349	142	5	27	59	136	1,006	619	59	314	741
Bartholomew	23,933	320	13.3	14	67	14	6	6	10	97	44	4	10	5	1	1	19	12	10	3	10	17	
Boone	24,475	341	13.9	15	62	19	2	5	10	135	32	7	7	7	1	1	3	4	33	10	3	9	
Brown	10,034	85	8.4	9	23	6	3	1	8	27	9	1	1	2	1	3	4	4	4	1	1	17	
Cass	37,180	443	11.9	13	94	43	13	6	12	111	42	6	14	3	3	6	27	39	2	5	2	16	
Clinton	27,478	409	14.8	26	85	38	8	7	12	123	41	8	12	6	11	12	22	18	2	13	4	24	
Decatur	18,147	271	14.9	16	44	18	6	6	6	100	31	3	7	1	1	2	22	11	1	8	1	11	
Delaware	50,859	693	13.6	35	171	50	14	8	23	173	66	26	16	5	2	14	47	29	2	8	9	37	
Fayette	12,271	201	16.3	12	38	12	3	2	4	68	18	5	6	4	1	2	8	6	1	4	1	11	
Fountain	19,274	258	13.3	14	46	16	5	4	9	83	26	6	4	1	2	2	11	11	2	10	1	12	
Franklin	15,743	218	13.8	13	37	11	5	2	4	82	23	5	3	1	2	3	19	3	2	12	13	20	
Hamilton	28,591	340	11.8	19	61	16	7	4	12	124	38	7	12	3	1	1	22	6	1	9	1	21	
Hancock	19,211	282	14.6	15	49	21	5	6	8	87	30	11	10	4	1	1	18	14	3	4	2	13	
Henricks	20,447	294	14.3	23	61	14	7	2	8	109	30	8	5	2	1	1	18	8	1	9	2	14	
Henry	23,569	370	15.6	40	80	21	2	5	8	133	43	6	12	1	1	3	21	8	3	6	2	10	
Johnson	19,783	277	14.0	15	56	21	3	6	12	86	31	6	2	1	5	1	29	14	1	6	1	11	
Madison	71,141	764	10.7	49	199	51	13	12	19	172	73	23	20	8	1	6	58	40	3	6	5	35	
Mason	28,773	3,739	14.4	198	675	180	69	47	128	582	483	93	76	52	1	7	3	235	138	10	69	21	
Monroe	22,254	318	12.6	10	46	32	7	3	2	85	43	8	7	1	1	3	20	24	3	9	2	183	
Montgomery	27,146	380	13.9	20	66	16	4	3	8	144	41	8	7	1	1	5	22	11	9	1	2	22	
Morgan	22,421	319	14.2	16	68	18	11	6	11	90	42	7	13	2	1	6	36	14	4	2	2	14	
Owen	15,372	159	10.3	5	22	17	5	2	2	68	18	4	3	5	3	2	5	9	1	5	2	8	
Parke	22,876	292	12.7	23	72	16	4	3	9	101	23	4	6	3	1	1	20	14	1	14	1	8	
Putnam	20,037	263	14.6	15	59	12	3	8	12	95	36	9	9	2	1	1	16	7	4	6	1	16	
Randolph	28,238	352	12.4	20	72	19	7	5	10	121	45	8	11	2	1	1	31	9	9	5	1	17	
Rush	17,615	255	14.4	9	42	18	2	6	9	87	24	9	9	1	1	1	9	13	3	8	2	19	

TABLE No. 4—Continued.

STATE AND COUNTIES.	Population, Estimated 34 times School Census, 1908.	Total Deaths Reported for Year 1908.	Annual Death Rate Per 1,000 Population.	Stillbirths.	IMPORTANT AGES.					DEATHS FROM IMPORTANT CAUSES.																
					Under 1 Year.	1 to 4 inclusive.	5 to 9 inclusive.	10 to 14 inclusive.	15 to 19 inclusive.	65 Years and over.	Pulmonary Consumption.	Other forms of Tuberculosis.	Typhoid Fever.	Diphtheria.	Croup.	Scarlet Fever.	Measles.	Whooping Cough.	Pneumonia.	Diarrheal Diseases under 5.	Cerebro-spinal Meningitis.	Influenza.	Puerperal Septicemia.	Cancer.	Violence.	Smallpox.
Shelby.....	25,347	354	13.9	12	63	15	6	3	13	129	50	17	7	2	1	2		7	24	10	2	4	1	13	26	
Tippecanoe.....	39,522	666	16.8	26	90	27	10	7	12	264	73	14	12	5				3	32	15	3	12	2	40	53	2
Tipton.....	19,603	213	10.8	14	51	15	4	3	9	60	23	7	2	2		1		2	13	11	1	3		11	16	
Union.....	5,117	75	14.6	5	13	2				37	11	3	1								1	2		6	3	
Vermillion.....	16,856	278	16.4	24	97	21	2	4	11	66	24	1	5	3			5	2	23	26	1	8	1	9	20	
Vigo.....	79,450	1,198	15.0	66	257	78	25	14	27	289	118	18	29	12	1	2	13	3	93	63	2	21	5	49	128	
Warren.....	7,117	131	18.4	6	28	12	3	2	1	49	9	1	4						15	7	3	3		4	5	
Wayne.....	36,577	588	16.0	28	87	29	11	5	5	213	76	13	12	1		2		7	34	14	1	15		32	35	
Southern Counties.....	722,146	9,301	12.8	517	2,035	648	207	177	311	2,577	1,120	166	293	98	8	17	107	146	683	455	36	321	52	385	580	1
Clark.....	33,840	472	14.0	24	85	18	4	14	13	142	45	12	30	5		1		1	35	9	2	11	5	19	28	1
Crawford.....	14,056	161	11.4	8	23	17	2	5	9	42	32	4	10	2	2		5		12	4		3	2	3	8	7
Daviess.....	32,935	347	10.5	25	86	34	6	7	7	95	33	6	10	2				2	26	21	3	8	1	10	21	
Dearborn.....	23,439	296	12.6	9	36	16	3	4	8	121	26	4	8	3			6		22	22	6	5		15	27	
Dubois.....	24,069	212	8.8	8	52	20	6	5	6	49	25	4					4	1	25	13	1	15	1	8	12	
Floyd.....	33,390	491	14.7	25	75	25	11	7	18	166	62	11	8	7				3	37	14	1	21	1	27	32	
Gibson.....	32,896	422	12.8	32	110	32	15	7	19	106	47	7	15	2		3	5	15	26	28	2	9	1	16	28	
Greene.....	40,285	453	11.2	32	126	41	13	7	16	99	62	8	9	3		2	4	9	30	41	8	15	2	20	34	
Harrison.....	22,781	237	10.4	11	45	7	7	6	9	89	25	5	9	2				1	12	8		15	2	8	15	
Jackson.....	26,376	372	14.1	18	95	29	7	8	11	99	46	5	12				13		27	32	7	7	4	22	18	
Jefferson.....	21,969	366	16.6	15	52	15	5	6	11	148	49	4	8					4	31	19		17	3	23	24	
Jennings.....	16,079	205	12.7	8	34	12	2	4	8	83	19	4	7	2	1			1	11	5	2	8		11	13	
Knox.....	41,079	602	14.6	35	162	50	23	8	16	131	62	10	9	5		3	24	14	53	40	1	18	5	25	47	
Lawrence.....	31,838	420	13.1	29	103	28	10	6	18	104	56	8	13	1				7	30	22	2	21	4	15	21	
Martin.....	16,421	173	11.2	10	51	8	6	4	3	36	21	5	16	1				3	4	9		10		7	6	

Ohio.....	4,214	68	16.1	2	10	4	2	23	9	1	4	1	1	8	2	1	1	6	...
Orange.....	18,592	226	12.1	7	46	20	3	62	28	6	6	6	6	22	3	14	...	...	...
Perry.....	21,304	211	9.9	16	54	13	4	66	34	4	8	4	1	15	9	6	...	...	...
Pike.....	22,176	289	13.0	22	72	29	8	70	35	4	16	7	1	17	6	9	...	...	...
Posey.....	23,586	304	12.8	21	80	27	6	63	47	6	6	4	3	18	8	17	...	...	...
Ripley.....	19,393	248	12.7	6	41	14	5	103	34	9	3	1		16	9	14	...	...	...
Scott.....	9,709	103	10.6	3	23	3	2	37	19	2	2			5	3	1	...	...	...
Spencer.....	23,998	253	11.0	22	58	24	10	71	33	1	7	5		23	10	5	...	...	...
Sullivan.....	32,882	410	12.4	32	117	34	8	82	38	10	13	8		34	33	4	...	...	...
Switzerland.....	10,010	189	18.8	8	32	9	6	76	22	3	4	1		20	1	10	...	...	...
Vanderburg.....	82,580	220	14.7	82	247	80	23	257	130	14	26	11	6	88	51	56	...	...	...
Warwick.....	24,482	284	11.6	17	67	26	8	79	29	7	15	2		18	19	10	...	...	...
Washington.....	19,768	267	13.5	10	53	13	6	88	49	3	7	1		26	9	7	...	...	...

TABLE No. 5.

Death Rates by Counties for the Year 1908.

STATE AND COUNTIES.	Population Estimated 34 Times School Census 1908.	Total Deaths Reported for the Year 1908.	Annual Death Rate per 1,000 Population.	DEATHS FROM IMPORTANT CAUSES.															
				Pulmonary Consumption.	Other Forms of Tuberculosis.	Typhoid Fever.	Diphtheria.	Croup.	Scarlet Fever.	Measles.	Whooping Cough.	Pneumonia.	Diarrheal Diseases Under 5.	Cerebro-spinal Meningitis.	Influenza.	Purpura Septicæmia.	Cancer.	Violence.	Smallpox.
State of Indiana.....	2,730,144	36,224	13.2	140.1	25.7	32.4	10.8	.6	3.4	7.6	15.2	92.1	59.8	5.6	31.7	5.9	63.6	92.5	.3
Northern Counties.....	920,585	11,747	12.7	105.9	20.3	26.3	7.2	.5	5.5	4.6	14.5	89.9	60.9	6.4	25.2	4.3	66.5	100.2	.2
Adams.....	25,452	317	12.9	8.4	113.9	15.7	7.8		7.8	3.3	11.7	35.3	23.5	4.4	7.8	5.5	62.8	47.1	
Allen.....	88,579	1,174	13.1	101.5	26.7	18.9	8.9		5.5	8.1	16.7	99.3	56.9	4.4	20.0	8.1	66.9	116.0	
Benton.....	12,320	116	9.4	64.9	11.0	6.1	16.2		6.1	15.9	10.6	61.6	55.4	6.1	32.4	10.6	48.7	24.3	
Blackford.....	16,222	179	11.0	141.7	18.4	26.5	5.3		5.3	15.9	10.6	105.9	26.5	10.6	18.4	10.6	49.3	67.8	5.3
Carroll.....	18,968	262	13.8	153.6	31.7	26.5	5.3		5.3	15.9	10.6	105.9	26.5	10.6	18.4	10.6	49.3	67.8	5.3
Cass.....	35,231	597	16.9	164.6	25.5	36.8	7.2		8.5	2.8	22.7	133.4	39.7	14.1	39.7	8.5	82.3	150.4	
DeKalb.....	24,503	317	12.9	85.7	32.6	28.5	10.4		6.2	2.0	4.0	32.6	32.6	4.0	20.4	4.1	77.6	93.8	
Elkhart.....	47,667	665	13.9	92.3	18.8	18.8	10.4		6.2	2.0	14.6	92.3	75.5	6.2	29.3	4.1	90.2	106.9	
Fulton.....	17,686	201	11.3	141.3	22.6	11.3	6.9	5.6	3.4	5.6	26.2	39.5	56.5	73.4	73.4	3.4	53.9	28.2	
Grant.....	57,239	763	13.3	146.0	15.7	12.2	6.9	1.7	3.4	5.6	26.2	111.8	31.4	6.9	20.1	3.4	53.9	80.3	
Howard.....	29,837	449	15.0	191.0	20.1	50.2	3.3		3.3	3.3	20.1	137.4	33.5	16.7	36.8	10.0	67.0	113.9	
Huntington.....	30,607	365	11.9	78.4	22.8	26.1	16.3		3.3	3.3	20.1	137.4	33.5	16.7	36.8	10.0	67.0	113.9	
Jasper.....	14,466	158	10.9	152.0	13.8	13.8	16.3		3.3	3.3	20.1	137.4	33.5	16.7	36.8	10.0	67.0	113.9	
Jay.....	27,156	325	12.0	125.2	18.4	14.7	3.6		3.6	3.6	25.7	103.1	47.8	7.3	33.1	3.6	73.6	84.6	
Kosciusko.....	28,189	361	12.8	117.0	10.6	35.4	3.6		3.6	3.6	25.7	103.1	47.8	7.3	33.1	3.6	73.6	84.6	
Lagrange.....	15,449	197	12.7	84.1	19.4	12.8	15.7		12.8	12.8	19.4	77.6	32.3	58.2	10.6	3.6	63.8	78.0	
Lake.....	63,444	1,044	16.4	111.9	25.2	32.9	15.7	4.7	14.1	14.1	19.4	77.6	32.3	58.2	10.6	3.6	63.8	78.0	
Laporte.....	66,077	602	10.7	76.7	14.2	28.5	15.7	3.5	1.7	3.5	3.5	53.5	60.7	7.1	7.1	1.7	66.0	123.1	
Marshall.....	25,067	296	11.8	63.8	7.9	11.9	7.9		1.7	3.9	11.9	59.8	39.8	7.1	55.8	1.7	75.7	79.7	

Miam	29,543	367	9.0	111.7	27.0	27.0	10.1	30.4	91.3	30.4	10.1	30.4	10.1	74.4	98.1
Newton	10,612	99	9.3	75.3	28.2	28.2	18.4	28.2	103.6	18.8	9.4	9.4	9.4	75.3	18.8
Noble	22,627	320	14.1	44.1	17.6	30.9	8.8	4.4	83.9	26.5	22.0	23.8	4.4	83.3	92.8
Porter	20,965	248	11.8	57.2	4.7	14.3	4.7	12.5	119.2	57.2	22.0	23.8	23.8	57.2	104.9
Pulaski	15,928	143	8.9	75.3	6.2	18.8	8.0	12.5	62.7	37.6	18.8	31.3	31.3	25.1	50.2
Stark	12,404	125	10.0	56.4	16.1	16.1	8.0	7.4	72.5	80.6	8.0	24.1	24.1	24.1	128.9
Steuben	13,359	101	14.2	89.8	22.4	14.9	6.9	7.4	74.8	37.4	14.9	22.4	14.9	67.3	59.8
St. Joseph	72,367	1,046	14.4	124.3	26.2	23.4	6.9	19.3	91.1	93.9	1.3	13.8	6.9	74.5	110.5
Wabash	28,119	311	11.0	64.0	7.1	24.8	17.7	3.5	90.4	46.2	7.1	24.8	7.1	56.9	78.2
Wells	24,234	227	9.3	82.5	24.7	20.6	4.1	16.2	57.7	33.0	4.1	33.0	4.1	45.3	61.8
White	18,480	105	10.5	54.0	5.4	16.2	21.6	17.7	54.0	43.2	10.8	43.2	10.8	81.8	43.2
Whitley	16,922	168	11.1	112.2	41.3	5.9	2.6	17.7	59.0	23.6	35.4	35.4	35.4	70.9	76.8
Central Counties	1,087,413	15,176	13.9	159.0	32.0	32.0	13.0	4	92.5	56.9	5.4	28.8	6.5	68.1	94.1
Bartholomew	23,933	320	13.3	183.8	16.7	41.7	20.8	4.0	79.3	50.1	12.2	36.7	4.0	71.0	62.6
Bone	24,475	341	13.9	130.7	28.6	28.6	6.6	12.2	134.8	40.8	12.2	36.7	9.0	69.4	61.2
Brown	10,034	85	8.4	89.6	9.9	9.9	19.9	4.0	30.8	36.8	9.9	9.9	9.9	19.9	79.7
Clay	37,180	443	11.9	112.9	16.1	37.6	8.0	40.0	72.8	104.8	5.3	13.4	5.3	43.0	69.9
Clinton	27,478	409	14.8	149.2	29.1	43.6	21.8	40.0	50.0	65.5	7.2	47.3	14.5	87.3	109.1
Deatur	18,147	271	14.9	170.8	16.5	38.5	5.5	55.1	121.2	60.6	5.5	44.0	5.5	60.6	93.6
Delaware	50,859	663	13.6	129.7	51.1	41.7	9.8	3.9	92.4	57.0	3.9	15.7	17.6	72.7	78.6
Fayette	12,271	201	16.3	146.6	40.7	48.8	5.1	16.2	65.1	48.8	8.1	32.5	8.1	66.6	154.8
Fountain	19,274	258	13.8	134.8	31.1	20.7	6.3	10.3	57.0	57.0	10.3	51.8	10.3	62.2	124.5
Franklin	15,743	218	13.8	146.0	31.7	19.0	6.3	12.7	120.6	1.9	12.7	76.2	12.7	82.3	127.0
Hamilton	28,591	340	11.8	132.9	24.4	41.9	10.4	3.4	76.9	20.9	3.4	31.4	3.4	73.4	59.4
Hancock	19,211	282	14.6	156.1	57.2	52.0	20.8	5.2	93.6	72.8	15.6	20.8	10.4	67.6	145.7
Hendricks	20,447	294	14.3	146.7	39.1	24.4	9.7	9.7	88.0	36.1	4.8	44.0	9.7	68.4	68.4
Henry	23,569	370	15.6	182.4	25.4	50.9	4.2	4.2	59.1	33.9	12.7	25.4	8.4	42.4	55.1
Johnson	19,733	277	14.0	172.3	30.4	10.1	5.0	25.3	146.9	70.9	5.0	30.4	5.0	56.7	70.9
Madison	71,141	764	10.7	102.6	32.3	28.1	11.2	1.4	81.5	56.2	4.2	8.4	7.0	49.1	77.3
Marion	258,773	3,730	14.4	186.6	35.9	29.3	20.0	3	14.6	53.3	3.8	26.6	3.8	70.7	93.9
Monroe	23,254	318	13.6	184.9	34.4	30.1	25.8	4.3	86.0	103.2	12.9	38.7	8.6	94.6	90.2
Montgomery	27,146	380	13.9	151.0	29.4	25.7	3.6	18.4	3.6	81.0	40.5	33.1	3.6	96.7	66.3
Morgan	22,421	319	14.2	187.3	31.2	57.9	8.9	26.7	100.5	46.5	17.8	17.8	8.9	62.4	66.9
Owen	15,372	159	10.3	117.0	26.0	19.5	32.5	19.5	32.5	58.5	6.5	32.5	13.0	52.0	52.0
Pike	22,876	292	12.7	139.8	17.4	26.2	13.1	8.7	79.8	61.4	4.3	81.1	4.3	34.9	87.4
Putnam	20,037	293	14.6	179.6	44.9	44.9	9.9	4.9	70.8	34.9	19.9	29.9	4.9	76.8	94.8
Randolph	21,238	332	12.4	159.3	28.3	36.9	7.0	3.5	108.7	31.8	17.7	17.7	3.5	60.2	60.2
Rush	17,615	255	14.4	136.2	51.0	22.7	5.6	5.6	51.0	73.8	17.0	45.4	11.3	107.8	124.8

Ohio.....	4,214	68	16.1	213.5	23.7	94.9	23.7	23.7	16.1	10.1	189.8	47.4	23.7	47.4	142.3
Orange.....	18,542	226	12.1	150.6	37.6	32.2	32.2	32.2	16.1	10.1	118.3	46.1	76.3	37.6	76.3
Perry.....	21,304	211	9.9	159.5	18.7	37.5	19.7	19.7	9.3	4.6	70.4	42.2	76.3	23.1	28.1
Pike.....	22,176	239	13.0	157.8	18.0	72.1	31.5	4.5	18.0	45.0	67.6	76.6	18.0	40.5	51.1
Posey.....	23,586	304	12.8	196.2	25.4	25.4	16.9	12.7	8.4	25.4	76.3	76.3	4.2	33.9	72.0
Ripley.....	19,393	248	12.7	175.3	46.4	15.4	5.1	5.1	5.1	5.1	82.5	46.4	20.6	10.3	92.8
Scott.....	9,709	103	10.6	195.6	4.3	20.5	21.7	21.7	30.4	30.0	51.4	30.8	10.3	20.5	41.1
Spencer.....	22,998	253	11.0	143.4	30.4	30.4	24.3	24.3	3.0	3.0	100.0	43.4	21.7	21.7	30.4
Sullivan.....	32,852	410	12.4	115.5	30.4	39.5	24.3	24.3	3.0	3.0	103.4	100.3	12.1	6.0	121.6
Switzerland.....	10,010	189	18.8	219.7	29.9	39.9	9.9	9.9	7.2	6.0	99.9	9.9	129.8	9.9	99.9
Vanderburg.....	82,589	1,220	14.7	157.4	16.9	31.4	13.3	13.3	6.0	44.8	106.5	61.7	1.2	8.0	107.7
Warrick.....	24,432	294	11.6	118.4	28.5	61.2	8.1	8.1	20.4	32.6	73.5	77.6	28.5	16.3	28.5
Washington.....	19,768	267	13.5	247.8	15.1	35.4	5.0	5.0	20.4	40.4	101.1	45.5	10.1	5.0	50.5

[46—22268]

TABLE A.

Births by Months, Color and Nationality of Parents, for the Year Ending December 31, 1908.

COUNTIES.	1908.												SEX.		COLOR.				NATIONALITY OF PARENTS.				Not Re- ported.													
													Males.	Females.	Total.	White.		Col'd.		American.		Foreign.														
																Males.	Females.	Males.	Females.	Fathers.	Mothers.	Fathers.		Mothers.												
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.																								
Adams.....	51	51	38	43	44	40	59	35	47	38	21	274	244	518	274	244	232	228	472	493	33	18	6													
Allen.....	134	154	135	130	128	132	128	146	116	74	123	831	761	1,592	827	755	1,000	1,000	1,377	1,444	161	129	18													
Bartholomew.....	49	37	50	55	53	40	43	54	51	88	35	279	241	520	273	238	300	300	500	504	7	5	3													
Benton.....	22	31	30	18	26	17	35	23	18	29	31	155	130	306	154	150	2	2	279	282	21	21	3													
Blackford.....	35	29	38	45	27	40	37	34	50	32	26	237	191	428	235	191	2	2	403	413	14	7	5													
Boone.....	29	39	43	18	40	40	45	42	47	38	44	233	229	462	232	228	1	1	456	459	2	1	2													
Brown.....	22	19	13	12	23	21	19	14	15	7	15	100	91	191	100	91	1	1	155	187	5	2	1													
Carroll.....	27	29	28	30	24	24	33	29	44	43	26	199	186	384	199	186	1	1	375	384	24	17	7													
Cass.....	47	44	56	48	55	64	52	70	53	58	37	306	306	632	325	308	27	20	583	598	13	7	9													
Clark.....	60	53	75	35	32	43	47	55	57	38	27	282	268	560	265	248	5	1	532	540	32	27	4													
Clay.....	25	33	32	24	24	30	22	22	25	32	29	173	149	322	168	148	5	1	284	291	32	27	4													
Clinch.....	56	50	44	42	52	48	30	35	42	46	42	297	263	565	297	268	1	1	553	555	6	6	3													
Crawford.....	17	26	27	17	21	21	32	21	29	22	18	139	124	283	139	124	1	1	275	278	2	1	1													
Daviess.....	40	65	75	63	40	40	39	51	67	65	72	389	389	788	389	386	2	2	763	772	4	1	1													
Dearborn.....	46	39	36	27	30	40	39	25	38	28	39	215	204	419	213	202	2	2	387	396	8	8	10													
Decatur.....	45	37	28	23	25	25	40	44	50	17	32	214	191	405	214	191	1	1	388	396	11	4	3													
Dekalb.....	44	42	51	31	55	33	33	51	39	30	41	261	261	523	261	245	11	16	452	464	22	21	2													
Delaware.....	115	113	112	96	81	119	101	101	81	91	74	607	561	1,168	566	566	235	225	1,131	1,135	24	20	3													
Dubois.....	35	35	33	35	49	32	37	37	53	53	47	235	225	460	235	225	1	1	445	454	9	1	1													
Elkhart.....	70	85	91	81	89	76	81	86	94	85	86	516	476	992	516	475	1	1	913	921	54	48	11													
Fayette.....	21	32	28	28	23	20	31	23	26	26	25	157	150	307	155	148	2	2	298	298	5	6	1													
Floyd.....	46	33	31	44	40	39	37	38	31	42	33	228	228	443	228	220	8	5	442	443	16	7	2													
Franklin.....	30	34	40	35	40	38	34	38	19	32	30	232	232	464	232	230	1	1	442	443	6	2	4													
Fountain.....	19	21	29	23	26	24	24	26	19	29	25	144	144	288	144	144	1	1	288	290	6	2	1													
Franklin.....	32	28	40	31	25	22	28	31	29	23	37	196	150	346	196	150	1	1	340	340	4	2	1													

TABLE A—Continued.

COUNTIES.	1908.												Sex.		Color.				NATIONALITY OF PARENTS.						Not Re-ported.														
													Males.	Females.	Total.	White.		Col'd.	American.		Foreign.		Fathers.	Mothers.															
																Males.	Females.		Males.	Females.	Males.	Females.	Males.	Females.															
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.																											
Gibson	67	66	61	57	50	44	57	63	58	66	51	59	392	307	699	384	295	8	12	671	687	6	2	12	12	Mothers.													
Grant	86	91	108	101	93	103	117	103	95	67	77	100	562	579	1,141	452	472	10	7	1,068	1,066	37	53	37	33	Fathers.													
Greene	74	72	75	75	77	79	79	83	90	69	71	88	480	439	921	480	439	2	1	841	838	68	51	68	51	Mothers.													
Hamilton	46	56	35	58	41	37	61	62	56	44	52	43	307	287	594	306	285	2	2	586	586	4	4	4	4	Fathers.													
Hancock	36	33	30	27	39	43	37	34	39	19	39	39	208	183	391	206	182	2	1	377	378	9	9	9	9	Mothers.													
Harrison	31	27	24	42	30	37	36	50	50	49	40	33	251	198	449	251	197	1	1	434	438	3	3	3	3	Fathers.													
Hendricks	29	46	32	37	48	38	47	60	50	29	26	27	227	207	434	224	206	3	1	428	426	2	2	2	2	Mothers.													
Henry	61	55	63	51	49	54	59	61	61	46	42	42	341	303	644	340	303	2	2	628	633	4	4	4	4	Fathers.													
Howard	70	64	65	56	63	64	64	59	48	50	42	49	353	303	656	351	303	2	2	618	629	23	16	23	16	Mothers.													
Huntington	34	50	59	36	63	64	64	55	48	59	54	45	339	314	653	339	314	2	2	632	640	14	6	14	6	Fathers.													
Jackson	63	54	57	53	37	54	48	62	68	60	60	46	352	304	656	349	302	3	2	631	643	18	5	18	5	Mothers.													
Jasper	20	25	17	19	16	21	19	20	14	10	12	12	129	108	230	124	108	1	1	608	622	6	1	6	1	Fathers.													
Jefferson	47	29	31	46	38	40	49	58	65	48	57	42	332	296	628	331	298	1	1	608	622	6	1	6	1	Mothers.													
Jennings	24	28	39	30	30	39	31	39	28	31	21	29	211	168	380	204	157	7	7	358	362	5	2	5	2	Fathers.													
Johnson	36	41	35	35	35	37	30	35	27	46	35	32	225	199	424	220	197	5	2	415	417	3	5	3	5	Mothers.													
Knox	80	95	93	78	84	70	78	78	78	75	67	67	409	460	869	409	456	4	4	909	919	31	23	31	23	Fathers.													
Kosciusko	63	48	52	53	68	44	53	48	46	56	39	61	324	307	631	323	307	1	1	612	616	11	8	11	8	Mothers.													
Lagrange	34	30	36	30	34	17	39	26	33	24	28	25	178	179	357	178	178	2	2	348	349	5	5	5	5	Fathers.													
Lake	107	125	121	108	80	96	119	141	122	100	114	110	733	610	1,343	731	609	2	1	691	732	631	594	10	6	Mothers.													
Laporte	71	90	119	83	94	81	77	91	77	64	76	78	511	490	1,001	511	489	1	1	747	768	231	213	231	213	Fathers.													
Lawrence	70	75	78	90	58	55	72	72	75	67	64	64	429	411	840	429	411	8	8	817	822	9	5	9	5	Mothers.													
Madison	126	112	145	115	109	120	121	135	121	120	114	106	757	687	1,444	749	684	3	3	1,348	1,368	78	61	78	61	Fathers.													
Marion	460	430	422	432	429	441	428	463	432	397	405	406	2,469	2,462	5,208	2,467	2,217	2	2	4,963	4,963	504	473	504	473	Mothers.													
Marshall	46	34	59	49	43	42	47	56	41	28	41	35	258	263	521	257	263	1	1	505	510	8	6	8	6	Fathers.													
Martin	28	21	18	21	20	23	28	28	23	20	22	26	144	127	271	144	127	2	2	261	262	2	1	2	1	Mothers.													
Miami	47	52	56	49	50	51	63	48	46	38	40	44	309	274	583	307	272	2	2	550	559	24	17	24	17	Fathers.													
Monroe	65	49	48	46	44	51	38	42	40	40	44	44	304	277	581	300	232	4	4	623	628	7	4	7	4	Mothers.													
Montgomery	61	65	65	59	57	52	57	59	62	46	54	58	369	306	665	363	301	6	6	655	655	3	5	3	5	Fathers.													
Morgan	34	31	32	39	36	23	27	36	47	26	36	28	208	202	410	207	201	1	1	400	408	2	1	2	1	Mothers.													

TABLE B.

*Births, Number of Children Born to Each Mother, Grouped Ages of Parents, Still, Plurality and Illegitimate Births,
Year Ending December 31, 1908.*

COUNTIES.	Total Births.	NUMBER OF CHILDREN BORN TO EACH MOTHER.												
		First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	Eighth.	Ninth.	Tenth.	Eleventh.	Twelfth and over.	Not reported.
Adams.....	518	119	93	83	59	34	36	27	16	14	10	7	10	10
Allen.....	1,592	467	306	238	179	117	63	73	49	22	18	4	18	36
Bartholomew.....	520	160	110	81	59	31	31	17	13	7	2	4	3	2
Benton.....	305	72	75	47	29	22	21	10	4	8	2	5	4	6
Blackford.....	428	128	90	57	45	28	24	21	13	7	2	2	2	9
Boone.....	462	141	93	65	57	27	24	18	6	7	6	.....	.....	18
Brown.....	191	46	30	23	33	16	10	12	11	5	2	.....	.....	2
Carroll.....	394	111	95	52	39	36	26	9	9	6	4	2	4	1
Cass.....	632	208	123	84	66	32	30	22	13	6	6	2	4	10
Clark.....	560	146	103	81	66	37	27	28	16	10	8	4	4	10
Clay.....	322	98	74	43	31	25	19	10	4	8	3	4	2	3
Clinton.....	565	173	131	84	54	47	22	16	12	13	4	3	2	4
Crawford.....	283	70	63	52	23	23	12	11	11	5	3	1	1	6
Daviess.....	788	211	145	96	109	68	48	42	18	22	10	6	4	4
Dearborn.....	419	118	93	56	49	33	22	15	10	6	2	7	4	1
Deatur.....	405	108	79	49	38	30	14	14	7	6	5	2	2	51
Delath.....	484	126	110	70	62	30	22	17	14	6	2	2	3	14
Delaware.....	1,168	338	247	164	123	77	51	37	30	23	17	5	5	33
Dubois.....	460	108	86	46	33	33	34	29	17	9	9	2	6	6
Elkhart.....	992	310	249	147	99	68	44	23	19	7	12	4	3	7

Fayette	307	98	74	45	31	22	15	8	5	2	3	1	1	8
Floyd	463	138	118	62	46	23	23	12	16	3	3	1	7	8
Fountain	426	131	93	61	35	34	29	15	13	3	3	2	2	6
Franklin	301	82	52	35	32	24	14	22	13	6	6	2	2	10
Fulton	346	111	70	50	40	27	11	14	8	4	1	2	2	1
Gibson	699	174	139	113	86	57	30	38	19	6	7	5	9	9
Grant	1,141	335	262	162	97	89	67	24	17	9	14	8	8	16
Greene	921	239	187	146	125	70	50	40	25	15	5	1	1	2
Hamilton	594	158	138	90	57	51	29	16	17	9	8	1	1	11
Hancock	391	110	91	66	37	35	17	6	10	1	5	3	3	1
Harrison	449	102	91	72	59	47	19	19	13	6	2	4	4	10
Hendricks	434	145	91	59	46	35	18	13	5	7	3	1	1	4
Henry	644	215	139	101	69	37	20	18	15	9	3	1	1	12
Howard	658	182	154	96	71	46	27	21	20	6	1	5	5	17
Huntington	653	162	146	112	72	54	29	19	19	8	6	4	4	16
Jackson	656	155	141	110	66	69	44	25	24	15	6	3	3	5
Jasper	230	56	43	30	29	14	19	14	5	5	1	2	2	11
Jay	631	168	151	100	60	42	37	20	12	14	7	3	8	9
Jefferson	437	132	89	68	49	34	24	16	6	5	2	1	1	7
Jenning	369	85	77	50	64	31	27	16	10	6	1	2	2	1
Johnson	424	123	98	70	55	30	19	13	6	2	1	2	1	4
Knox	957	235	196	130	114	76	53	48	31	21	14	8	4	27
Kosciusko	631	180	133	111	69	58	22	20	14	8	1	1	1	1
Lafayette	357	90	78	69	31	27	19	12	9	5	1	3	3	5
Lugrange	1,343	393	304	193	137	81	70	35	29	24	10	9	10	48
Lake														
Laporte	1,001	324	203	126	98	85	46	38	21	20	19	8	8	5
Lawrence	840	205	177	118	97	69	45	38	27	23	11	3	8	19
Malison	1,444	378	309	220	157	112	68	45	49	25	18	14	19	30
Marion	5,208	1,861	1,216	747	501	290	197	136	94	66	34	19	38	9
Marshall	521	147	127	69	48	40	28	20	12	9	4	8	6	3
Martin	271	64	48	35	39	16	29	15	11	9	1	1	4	4
Miami	583	176	133	88	68	30	27	21	12	10	3	3	9	3
Monroe	541	146	111	76	63	32	22	22	12	10	3	2	2	12
Montgomery	665	207	140	99	75	47	26	23	15	4	6	7	4	12
Morgan	410	105	86	65	44	34	23	17	7	6	9	2	2	10
Newton	261	59	54	52	25	22	17	7	7	6	5	2	5	5
Noble	513	138	110	72	66	32	25	21	14	10	4	5	3	13
Ohio	68	21	7	6	6	3	5	5	2	1	1	1	2	6
Orange	364	118	70	44	22	36	24	11	9	8	4	2	4	4
Owen	303	87	54	65	33	17	13	9	7	5	5	1	1	8

TABLE B—Continued.

COUNTIES.	Total Births.	NUMBER OF CHILDREN BORN TO EACH MOTHER.												
		First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	Eighth.	Ninth.	Tenth.	Eleventh.	Twelfth and over.	Not reported.
Parke.....	492	127	110	78	49	49	29	21	11	3	4	3	2	6
Perry.....	454	86	100	73	50	38	37	15	15	9	6	3	4	18
Pike.....	532	122	102	76	58	48	33	27	19	11	9	4	4	19
Porter.....	392	92	88	48	50	25	19	16	15	4	3	4	2	26
Posey.....	490	102	115	81	51	38	31	24	9	13	7	6	2	11
Pulaski.....	235	48	36	35	20	22	18	20	7	7	1	2	3	16
Putnam.....	476	129	94	70	41	42	31	18	11	7	5	3	1	24
Randolph.....	655	195	135	103	75	44	28	20	13	5	4	4	3	26
Ripley.....	390	106	72	56	49	27	21	8	6	6	5	2	2	30
Rush.....	425	128	104	61	50	27	14	9	9	5	3	1	2	12
Scott.....	229	53	49	31	30	21	13	6	8	3	4	3	1	7
Shelby.....	533	160	131	59	55	41	27	10	13	4	3	2	2	26
Spencer.....	319	72	48	50	35	35	24	17	7	5	1	4	4	17
Starke.....	203	48	27	37	27	21	12	14	5	2	3	1	1	5
Steuben.....	228	57	62	34	23	16	8	9	5	1	2	.....	.....	11
St. Joseph.....	604	227	536	337	205	172	104	76	53	41	24	14	32	39
Sullivan.....	842	204	149	115	98	73	48	30	26	17	19	8	2	53
Switzerland.....	208	47	40	38	15	23	15	13	6	6	1	2	1	1
Tippecanoe.....	656	183	150	73	65	42	26	23	18	8	12	3	3	50
Tipton.....	421	108	92	48	57	38	18	17	18	9	5	1	1	9
Union.....	126	44	19	23	17	10	2	4	1	2	2	.....	.....	2
Vanderburgh.....	1,561	482	362	215	161	122	73	41	44	19	20	6	16	2
Vermillion.....	115	480	77	60	44	31	16	8	5	3	3	2	5	20
Vigo.....	1,617	536	342	212	174	104	74	40	35	23	13	8	4	52

Wabash.....	466	132	97	96	51	24	16	14	8	10	5	4	1	18
Warren.....	253	80	53	41	27	15	8	11	5	6	1	2	1	12
Warwick.....	484	109	104	71	68	39	41	14	14	9	5	3	2	2
Washington.....	375	90	86	53	36	31	27	16	8	6	7	3	4	2
Wayne.....	763	259	167	129	63	45	29	23	11	13	4	5	3	12
Wells.....	550	152	110	91	65	44	27	17	17	10	2	1	3	11
White.....	390	100	74	45	38	44	23	7	12	7	2	1	2	2
Whitley.....	318	79	66	49	42	20	16	13	3	12	4	4	2	8
Grand total.....	56,713	16,148	12,212	8,344	6,113	4,206	2,844	2,011	1,406	933	596	347	389	1,164

TABLE B—Continued.

*Births, Number of Children Born to Each Mother, Grouped Ages of Parents, Still, Plurality and Illegitimate Births,
Year Ending December 31, 1908.*

COUNTIES.	GROUPED AGES OF PARENTS.													Still-births.		Plurality Births.		Illegitimate Births.							
	Under 20.			20 to 30.			30 to 40.			40 to 50.			50 to 60.			60 to 70.			70 to 80.			Not Reported.			
	Fathers.		Mothers.	Fathers.		Mothers.	Fathers.		Mothers.	Fathers.		Mothers.	Fathers.			Mothers.	Fathers.		Mothers.	Fathers.		Mothers.	Fathers.		
	Fathers.	Mothers.	Fathers.	Mothers.	Fathers.	Mothers.	Fathers.	Mothers.	Fathers.	Mothers.	Fathers.	Mothers.	Fathers.	Mothers.	Fathers.	Mothers.	Fathers.	Mothers.	Fathers.	Mothers.	Fathers.	Mothers.			
Adams	5	38	200	274	201	160	83	38	9	1	12	3	11	7	11	3	3	3	11	7	11	3	3		
Allen	11	133	644	806	604	552	264	75	29	3	21	10	30	23	21	11	11	14	21	11	11	11	14		
Bartholomew	13	59	220	290	197	138	57	21	13	1	0	2	8	5	5	10	10	7	10	10	10	7	15		
Benton	25	127	162	162	111	95	58	20	2	2	3	1	7	7	2	2	2	3	2	2	2	2	1		
Blackford	10	55	188	220	152	119	56	24	7	1	8	4	9	7	4	8	6	6	4	8	6	6	3		
Bloomington	9	52	222	260	153	118	57	26	12	3	4	4	10	7	4	4	4	2	4	7	4	4	2		
Brown	5	29	61	93	81	54	32	11	5	1	3	1	3	5	3	5	5	4	2	5	3	5	4		
Carr	5	50	175	209	135	108	59	18	8	1	5	2	12	6	6	6	8	3	4	6	6	8	7		
Cass	6	58	270	346	234	184	87	20	13	1	19	15	14	10	5	11	6	5	5	11	6	8	8		
Clark	9	57	211	269	223	187	75	31	17	1	15	8	19	10	8	8	9	9	5	8	8	9	6		
Clay	1	43	144	165	112	92	45	16	10	2	8	4	10	8	2	2	6	2	4	2	4	2	2		
Clinton	7	73	276	299	176	157	80	30	15	2	9	3	18	8	2	4	3	3	2	4	4	3	3		
Crawford	3	30	128	156	98	73	39	12	6	1	9	9	5	6	6	2	4	2	6	6	2	4	2		
Davies	12	81	324	423	291	229	117	40	16	6	8	1	15	11	14	14	2	2	14	14	6	7	7		
Dearborn	3	36	161	223	167	117	58	27	9	1	16	11	4	4	4	6	4	4	6	6	4	6	2		
Decatur	1	40	189	220	144	129	51	12	14	1	2	1	8	4	4	4	2	2	4	4	4	2	2		
Delaware	3	45	191	256	200	145	72	26	4	1	7	4	4	4	3	6	10	3	6	10	4	4	4		
Delaware	23	140	548	635	405	321	152	58	21	1	7	4	13	12	16	5	7	7	16	5	7	7	6		
Dubois	1	29	165	235	191	146	75	41	13	1	10	1	6	6	6	4	6	4	6	6	4	6	6		
Elkhart	7	90	490	568	334	276	125	40	8	2	13	6	15	9	13	11	8	8	13	9	11	8	8		

TABLE B—Continued.

COUNTIES.	GROUPED AGES OF PARENTS.														Still-births.		Plurality Births.		Illegitimate Births.	
	Under 20.		20 to 30.		30 to 40.		40 to 50.		50 to 60.		60 to 70.		70 to 80.								Not Reported.
	Fathers.	Mothers.	Fathers.	Mothers.	Fathers.	Mothers.	Fathers.	Mothers.	Fathers.	Mothers.	Fathers.	Mothers.	Fathers.	Mothers.	Males.	Females.	Males.	Females.		
Parke.....	8	60	211	258	171	141	73	44	17	9	2	3	10	3	7	9	5	9	4	5
Perry.....	3	44	169	233	185	129	65	38	17	18	2	6	17	3	5	6	4	4	7	4
Pike.....	9	70	234	277	180	151	85	27	10	28	2	3	27	3	9	6	4	4	1	2
Porter.....	3	30	143	200	160	126	70	25	5	11	2	8	10	6	5	6	4	3	9	1
Posy.....	4	38	193	264	197	150	59	22	14	5	3	8	22	4	6	4	3	3	1	2
Pulaski.....	3	30	96	108	76	73	44	17	9	9	..	..	12	2	3	3	4	4	1	4
Putnam.....	15	63	209	246	142	133	80	28	18	11	..	3	17	3	4	4	2	4	1	1
Randolph.....	13	85	302	362	228	166	82	33	11	28	1	8	33	6	4	2	3	4	1	7
Ripley.....	1	33	148	215	163	124	58	14	10	15	2	15	6	3	6	4	2	2	1	5
Rush.....	4	37	178	247	152	117	71	12	5	..	..	10	7	1	8	2	5	5	3	3
Scott.....	1	24	94	110	84	81	32	9	8	..	..	6	2	4	4	1	3	3	1	4
Shelby.....	8	57	256	309	189	141	53	18	11	11	1	6	8	3	3	8	4	4	3	4
Spencer.....	3	32	112	148	109	103	63	26	14	14	3	12	7	3	6	2	4	3	3	3
Stark.....	5	18	77	105	84	68	29	9	5	..	..	2	2	2	4	2	2	1	1	1
Steuben.....	4	17	94	125	81	67	38	15	4	..	2	3	2	6	1	6	2	1	2	2
St. Jo eph.....	16	159	1,018	1,347	830	603	303	99	29	..	..	10	30	30	23	17	6	14	6	14
Sullivan.....	10	110	377	456	294	225	118	37	13	39	3	19	17	13	21	12	6	6	3	3
Switzerland.....	3	14	76	102	68	73	43	14	11	..	..	4	2	2	13	8	3	2	2	2
Tippicanoe.....	6	66	300	364	224	190	90	26	19	..	1	9	4	4	10	6	6	1	4	4
Tipton.....	8	56	191	224	142	108	57	27	15	..	1	6	5	4	4	4	1	2	2	2
Union.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Vanderburgh.....	34	161	678	800	50	45	18	..	..	..	..	1	4	2	2	2	4	2	2	2
Vermillion.....	3	56	205	261	561	496	214	79	32	1	2	19	17	19	18	24	20	18	6	18
Vigo.....	20	231	750	905	565	398	189	62	31	..	5	39	12	36	14	21	14	6	4	21

Wabash.....	4	56	224	254	158	127	56	19	10	2	8	6	4	3	2	6	4	4	
Warren.....	8	32	113	141	77	63	43	13	6	1	2	1	3	1	2	4	4	.....
Warrick.....	6	48	195	240	178	159	80	25	8	2	5	3	4	5	13	5	6	4	
Washington.....	5	40	135	184	140	118	66	19	11	3	7	6	3	2	7	9	3	1	
Wayne.....	11	71	362	446	264	213	103	28	11	.....	9	2	8	6	2	4	6	7
Wells.....	14	72	243	288	204	179	67	21	6	2	10	6	6	.....	6	2	6	5
White.....	2	28	133	202	152	108	52	18	9	.....	8	.....	10	3	5	3	4	4
Whitley.....	3	20	129	174	122	99	45	17	8	.....	5	3	5	3	7	3	1	2
Grand total.....	768	5,990	24,696	30,753	20,593	16,318	7,890	2,661	1,172	18	135	19	853	376	918	621	595	511	473

TABLE C.
Marriages by Months, Color and Nationality, Year Ending December 31, 1908.

COUNTIES.	1908.												Color.		NATIONALITY.				Total.			
													White.	Colored.	American.		Foreign.			Not Reported.		
															Grooms.	Brides.	Grooms.	Brides.				
	January	February	March	April	May	June	July	August	September	October	November	December										
Adams.....	18	17	18	14	11	19	13	15	12	27	26	24	214	13	194	190	20	24		214		
Allen.....	66	40	30	61	50	82	54	41	73	63	62	76	685	1	650	666	48	32		698		
Baraboo.....	14	17	13	22	15	22	7	17	24	26	21	17	214	1	179	183	27	19	9	215		
Benton.....	2	19	9	5	2	6	3	5	12	12	5	4	78	2	78	78	2			78		
Blackford.....	10	16	10	10	13	18	14	17	10	10	13	26	167		157	166	10	11		167		
Boone.....	20	17	13	11	12	12	11	18	20	22	25	21	200	2	202	202				202		
Brown.....	3	2	3	12	8	2	4	4	4	6	0	2	50		50	50				50		
Carroll.....	11	14	15	14	7	12	9	3	11	11	10	19	136		134	136	2			136		
Cass.....	21	20	24	21	23	34	15	32	35	24	43	26	315	3	306	313	12	5		318		
Clark.....	72	65	56	90	71	66	85	98	98	104	87	79	648	126	648	661	17	12	1	974		
Clay.....	28	13	33	24	23	36	19	24	23	16	28	31	267	1	262	261	16	7		268		
Clinton.....	20	20	25	14	11	26	25	22	34	25	30	29	279	2	280	281				281		
Crawford.....	9	11	12	10	8	12	8	11	9	10	12	12	124		74	79	34	29	16	124		
Darwin.....	30	19	18	19	13	23	15	15	22	29	31	28	260	2	255	260	7	2		262		
Dearborn.....	13	16	7	21	14	17	19	12	19	17	16	22	190	3	188	190	5	3		193		
Dexter.....	9	14	12	11	15	8	10	14	13	17	15	20	167	1	155	157	3		1	158		
Detroit.....	22	6	21	15	18	19	18	20	24	25	25	26	239		233	236	6	3		239		
DeWitt.....	46	29	19	43	26	44	7	36	38	23	44	44	422	18	433	430	5	9	2	440		
Dubuque.....	8	13	5	9	26	14	7	5	22	26	18	15	168		167	168	1			168		
Elkhart.....	42	29	37	28	25	42	26	32	37	32	35	35	402		368	378	34	24		402		

Fayette	4	4	8	6	6	14	12	12	12	7	10	14	103	2	105	105
Floyd	22	18	12	14	22	12	14	14	18	36	24	21	223	15	233	238
Fountain	13	23	6	16	15	15	20	20	15	29	16	25	205	1	198	206
Franklin	10	13	6	14	9	8	5	8	9	9	11	18	115	6	61	115
Fulton	12	10	12	18	9	10	8	8	9	16	14	23	160		160	160
Gibson	1	35	22	20	16	15	15	15	23	23	23	21	188	12	199	200
Grant	33	37	35	34	58	36	36	36	34	49	42	51	487	11	492	498
Greene	22	31	20	20	24	20	24	24	24	25	22	31	329	8	321	320
Hamilton	23	23	13	11	24	23	23	24	25	22	20	24	246	8	250	254
Hancock	7	11	8	13	10	15	6	14	14	17	17	12	141	2	139	141
Harrison	10	9	11	11	14	18	5	20	19	19	11	15	154	4	158	155
Hendricks	22	9	11	8	3	8	9	11	14	17	16	21	146	3	147	149
Hewitt	20	19	20	13	25	18	14	14	26	24	24	23	237	2	237	237
Howard	17	26	21	26	13	19	22	20	37	24	41	35	304	7	302	309
Huntington	12	22	15	17	21	7	14	32	26	29	25	24	244	5	239	244
Jackson	20	17	18	17	24	22	13	29	15	15	24	29	248	1	244	249
Jasper	17	12	10	7	3	2	13	7	8	17	11	8	115	2	92	115
Jay	20	18	19	12	13	20	14	16	14	22	15	26	207	2	208	209
Jefferson	19	16	24	27	18	17	15	23	27	20	22	25	240	13	253	253
Jennings	9	11	5	11	8	11	10	15	8	11	20	19	136	2	137	138
Johnson	7	20	10	20	8	20	8	11	16	26	25	15	183	3	184	186
Knox	34	14	21	28	22	36	30	22	38	46	38	45	365	9	364	374
Kosciusko	20	26	22	21	10	16	20	16	18	16	23	25	232	1	230	233
Lagrange	14	13	7	8	9	16	8	9	13	15	8	17	137	1	136	137
Lake	95	90	80	107	87	43	72	71	63	120	84	102	994	30	699	1,014
Laporte	42	39	27	31	24	38	30	41	37	53	38	34	432	2	370	434
Lawrence	10	21	11	24	29	31	8	44	29	27	36	26	298	1	270	298
Madison	19	32	38	41	42	47	45	25	42	65	53	53	467	10	461	477
Marion	62	15	79	205	175	338	28	165	151	262	200	179	1,732	154	1,733	1,896
Marshall	15	9	20	21	21	21	9	13	21	14	21	30	214	1	214	215
Martin	9	4	9	14	14	8	9	8	11	11	10	10	119	1	118	119
Miami	16	28	16	27	19	28	18	18	26	27	23	26	272	1	270	273
Monroe	18	12	20	21	10	17	17	10	16	18	47	28	228	6	234	234
Montgomery	12	21	19	15	12	23	18	26	21	32	21	28	245	3	227	248
Morgan	16	9	15	10	15	12	12	12	11	19	21	22	183	1	183	183
Newton	3	6	6	7	1	7	7	5	8	10	9	6	75	2	64	75
Noble	12	8	16	26	9	19	8	14	19	21	24	21	197	4	195	197
Ohio	6	4	3	1	1	1	1	0	5	7	6	9	45	4	45	45
Orange	17	4	4	37	15	11	21	11	7	11	10	15	161	2	163	163
Owen	7	10	9	13	10	15	7	8	10	10	9	12	119	1	120	120

TABLE C—Continued.

COUNTIES.	1908.												Colored.		NATIONALITY.				Total.			
													White.		Colored.		American.			Foreign.		Not Reported.
																	Grooms.			Brides.			Grooms.		Brides.
													January.	February.	March.	April.	May.	June.		July.	August.	September.
Parke.....	15	15	14	16	11	13	12	11	25	14	18	19	183	1	174	10	8	176	184			
Perry.....	15	8	10	12	15	9	12	17	22	14	25	10	164	5	155	13	11	157	189			
Pike.....	15	20	12	17	15	9	11	15	12	16	21	19	182		179	3		180	192			
Porter.....	12	16	10	19	14	13	10	15	19	17	9	16	166	2	145	21	15	150	182			
Posey.....	11	22	14	16	19	8	23	35	27	30	26	27	241	17	238			236	258			
Pulaski.....	8	17	10	5	5	9	11	6	8	9	10	8	106		96	10	5	101	106			
Putnam.....	14	15	12	11	18	19	18	8	22	19	31	14	188	1	188	3	3	190	199			
Randolph.....	15	19	18	24	17	20	16	20	21	24	34	29	251	1	250	2	2	246	252			
Ripley.....	12	13	6	18	9	11	6	10	12	13	11	18	139	6	138	1	3	136	139			
Rush.....	8	12	5	3	7	8	3	10	15	12	21	16	114	6	120	120		120	120			
Scott.....	6	11	9	10	7	10	6	6	10	9	19	12	115		115			115	115			
Shelby.....	18	22	17	24	11	15	26	21	16	23	30	24	242	5	245	2	1	246	247			
Spencer.....	14	22	23	27	10	13	17	21	28	22	23	32	238	14	252			252	252			
Starke.....	3	3	3	7	5	4	9	12	10	8	6	7	78		58	20	17	81	78			
Steuben.....	6	10	13	17	8	9	6	10	7	24	16	14	142	1	140	3		143	143			
St. Joseph.....	51	44	62	33	53	80	85	53	62	45	26	37	624	7	490	139	129	501	631			
Sullivan.....	26	24	22	19	29	17	25	28	24	36	31	34	314	1	265	19	15	290	315			
Switzerland.....	3	7	5	9	3	3	4	2	5	7	7	7	58		58			58	58			
Tipton.....	17	17	28	24	15	65	20	25	38	31	37	32	346	3	338	11	10	339	349			
Union.....	7	9	16	12	10	23	4	8	10	21	22	20	162		161	1		162	162			
Vanderburgh.....	4	6	2	4	4	3	3	1	5	3	5	4	44		44			44	44			
Vermillion.....	72	68	63	61	84	97	97	81	62	100	96	90	882	109	940	50	28	963	991			
Vigo.....	9	14	19	12	14	15	11	17	17	22	22	22	146	1	114	33	26	121	147			
	109	66	48	53	76	118	82	74	64	91	89	90	913	64	913	62	49	926	977			

Webb.....	20	18	8	20	9	34	13	18	22	15	17	32	224	2	213	219	1	.....	12	7	228
Warren.....	4	10	9	10	6	9	3	4	12	7	7	13	94	.....	90	90	4	3	.....	1	94
Warwick.....	14	13	15	16	9	14	23	20	4	16	34	29	199	8	267	208	.....	1	.....	.....	267
Washington.....	10	10	15	10	6	12	4	9	17	16	13	13	135	.....	135	135	.....	.....	.....	.....	135
Wayne.....	53	17	14	24	26	41	28	24	32	33	43	24	342	17	355	356	4	3	.....	.....	359
Wells.....	24	13	14	20	18	11	25	8	19	18	30	22	212	.....	210	210	1	1	.....	1	212
White.....	11	14	9	11	4	16	10	17	12	13	10	23	149	1	147	149	3	1	.....	.....	150
Whitley.....	8	7	9	11	4	6	9	12	11	10	22	11	120	.....	120	120	.....	.....	.....	.....	120
Grand total.....	1,824	1,682	1,658	2,042	1,763	2,338	1,697	1,943	2,240	2,452	2,504	2,473	23,867	749	23,137	23,428	1,383	1,005	96	93	24,616

[47—22268]

TABLE D.
Marriages, Grouped Ages, for the Year Ending December 31, 1908.

COUNTIES.	Under 20		20 to 30.		30 to 40.		40 to 50.		50 to 60.		60 to 70.		70 to 80.		80 and Over.		Not Reported.		Total.
	Grooms.	Brides.	Grooms.	Brides.	Grooms.	Brides.	Grooms.	Brides.	Grooms.	Brides.	Grooms.	Brides.	Grooms.	Brides.	Grooms.	Brides.	Grooms.	Brides.	
Adams.....	3	54	169	133	31	14	3	1	4	3	1	1	3	2				6	214
Allen.....	3	123	464	442	127	80	51	38	18	8	10	5	7	4	1		1		688
Bartholomew.....	9	57	145	120	35	19	11	10	6	6	5	1	1				2		215
Benton.....	2	21	60	47	11	7	1	1	2	1	1		1		1				78
Blackford.....	5	50	122	96	22	14	12	5	3	2	3								167
Boone.....	12	51	138	123	27	13	12	8	7	3	6	4							202
Brown.....	4	23	35	20	6	4	1	1	1	1	1		2	1					50
Carroll.....	2	37	96	74	20	17	4	4	2	2	3		2						136
Cass.....	12	79	202	174	68	36	22	17	5	2	9		2					8	318
Clark.....	23	370	688	473	167	89	53	30	19	7	8	4	2		3		1	1	874
Clay.....	9	89	202	165	61	28	12	12	11	3	3		1						288
Clinton.....	7	82	203	144	29	26	16	16	6	6	8	5	4	1			1		281
Crawford.....	58	44	33	43	13	16	10	12	4	5	3		4						124
Davies.....	7	68	191	151	25	22	17	9	6	6	7		3	1			1		263
Dearborn.....	2	47	136	113	39	20	9	5	12	5	4		1				2		193
Decatur.....	4	37	103	90	32	18	10	7	4	3	4		1				1		158
Delaware.....	3	61	164	135	38	26	12	6	4	4	12		6	2					239
Dubois.....	9	102	302	262	77	43	19	18	21	12	7		2				1		440
Elkhart.....	3	52	132	98	14	10	5	5	3	3	4		5						188
Fayette.....	3	74	273	248	73	40	15	21	18	12	13		6	2	1				402
Floyd.....	4	29	71	58	19	11	8	5	2										105
Franklin.....	3	44	143	120	40	38	24	13	11	6	8		3		1		1	2	238
Fulton.....	1	53	131	111	42	26	13	7	11	8	8		4	2	1		4		200
Franklin.....	1	22	85	74	23	16	3	1	1	1	2		1						115
Fulton.....	7	40	114	96	24	14	9	7	2	1	1		3						160

TABLE D—Continued.

COUNTIES.	Under 20.		20 to 30.		30 to 40.		40 to 50.		50 to 60.		60 to 70.		70 to 80.		80 and Over.		Not Reported.		Total.
	Grooms	Brides	Grooms	Brides	Grooms	Brides	Grooms	Brides	Grooms	Brides	Grooms	Brides	Grooms	Brides	Grooms	Brides	Grooms	Brides	
Ripley	3	32	83	80	10	5	3	2	6	3	2	1	2	3	5	2	5	130	
Rush	1	23	82	70	9	15	3	3	3	3	2	1	1	2	5	1	5	120	
Scott	1	32	73	55	11	9	8	4	8	2	2	1	1	2	2	1	2	115	
Shelby	6	63	162	126	13	15	7	6	7	8	2	2	2	2	2	3	3	247	
Spencer	6	73	180	151	12	5	5	3	5	4	3	2	2	2	2	1	2	252	
Stark	2	26	57	44	4	1	3	2	2	2	1	1	1	1	1	5	5	76	
Steuben	1	38	102	78	4	4	1	3	3	2	2	1	1	1	1	2	2	145	
St. Joseph	10	135	419	353	49	34	21	14	21	14	5	1	2	2	10	15	10	631	
Sullivan	26	136	215	134	24	16	11	6	11	6	4	1	2	1	2	2	2	315	
Switzerland	8	39	38	38	4	4	2	1	2	1	2	1	1	1	1	1	1	358	
Tippecanoe	5	57	220	218	31	17	12	6	12	6	8	4	1	1	1	1	1	349	
Tipton	7	49	117	87	2	4	6	5	6	5	6	4	2	2	1	1	1	163	
Union	1	12	29	24	3	3	2	1	3	2	6	4	2	1	2	1	4	44	
Vanderburgh	15	187	675	617	63	44	38	12	38	12	5	3	3	4	3	6	3	991	
Vermillion	1	47	99	67	8	15	6	3	6	3	3	2	2	2	2	2	2	147	
Vigo	59	294	602	467	67	49	28	21	28	13	1	1	3	1	4	4	4	977	
Wabash	6	60	157	129	16	7	3	3	6	6	2	2	1	1	2	2	2	226	
Warren	9	44	64	37	9	6	1	2	3	2	2	1	1	2	1	1	1	94	
Warrick	9	55	133	123	42	19	8	6	9	3	2	2	2	2	1	1	1	207	
Washington	4	40	99	77	23	9	5	3	3	2	3	1	1	1	1	1	1	135	
Wayne	7	63	227	219	16	17	15	10	15	8	3	3	2	2	12	3	12	359	
Wells	12	65	152	124	36	15	9	5	1	1	1	1	1	1	1	1	1	212	
White	1	42	102	86	28	9	7	6	4	4	3	1	4	1	1	1	1	150	
Whitley	2	28	74	69	22	12	12	6	3	4	7	1	1	1	4	1	1	120	
Grand total	796	6,273	16,356	13,678	4,332	2,684	1,574	1,055	767	444	449	180	154	42	14	1	174	259	24,616

TABLE No. 7.

Deaths by Occupations, Months and Ages for the Year Ending December 31, 1908.

OCCUPATIONS.	Sex.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Actors and actresses	Males.....				1	4	1			1	1		
	Females.....												
Agents	Males.....	11	10	3	11	1	9	8	9	4	5	6	7
	Females.....			1									
Architects	Males.....						1		1		1		
Artists	Males.....												2
	Females.....		1						1				
Auctioneers	Males.....	1							1				
Bakers and confectioners	Males.....	6	3	4	3	1	8	1		1	3	5	5
	Females.....	1											
Bankers	Males.....	1	3	2	1	2	1					2	1
Barbers	Males.....	4	4	4	4	3	7	9	7	2	7	8	7
Bartenders	Males.....	8	13	7	8	8	8	12	11	5	2	6	3
Basket makers	Males.....			1								1	1
Blacksmiths	Males.....	11	8	11	17	9	6	10	6	10	6	12	8
Bookkeepers	Males.....	4	2	4	3	5	6	1	4	5	4	7	2
	Females.....			1	1	1				2			
Brewers, distillers, etc.	Males.....	4	1		1	1	1		1		1	2	1
Brickmakers	Males.....				1					1		1	

TABLE No. 7—Continued.

OCCUPATIONS.	Sex.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Builders and contractors.....	Males.....	4	4	4	6	7	7	3	4	7	7	9	4
Butchers.....	Males.....	9	3	9	4	3	4	8	4	4	.....	0	4
Cabinet makers.....	Males.....	4	11	12	6	6	2	2	2	3	7	4	4
Carpenters.....	Males.....	42	39	37	35	29	23	23	35	31	28	32	35
Carriage and wagon makers.....	Males.....	.....	5	2	6	4	2	1	3	1	4	6	5
Cheese makers.....	Males.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Chemists and druggists.....	Males.....	3	3	1	3	3	3	.....	2	3	.....	3	4
Cigar makers.....	Males.....	3	2	4	5	1	1	4	1	.....	3	4	3
	Females.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
Clergymen.....	Males.....	7	10	6	12	9	6	6	2	6	10	7	12
	Females.....	1	.....	.....	1	.....	.....	2	1	1	.....	.....	.....
Clerks.....	Males.....	20	20	21	13	21	12	18	23	16	12	19	19
	Females.....	6	4	.....	2	2	1	3	3	4	3	2	3
Collectors.....	Males.....	1	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Commercial travelers.....	Males.....	5	3	7	5	6	1	5	2	6	2	7	.....
Cooks.....	Males.....	2	.....	2	1	1	3	.....	1	.....	2	.....	.....
	Females.....	2	1	.....	3	2	.....	1	1	1	1	.....	.....
Coopers.....	Males.....	4	5	5	5	4	8	7	1	4	5	2	5
Dairymen.....	Males.....	2	1	.....	.....	.....	.....	.....	1	1	.....	.....	.....
Dentists.....	Males.....	.....	.....	.....	.....	.....	1	1	.....	1	.....	1	.....
Draftsmen.....	Males.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....

Painters.....	Males	19	9	23	13	12	17	11	12	6	12	14	13
Peddlers.....	Males	2	2	1	.....	.....	1	.....	2	.....	.....	.....	1
Photographers.....	Males	.....	1	1	.....	.....	.....	.....	1	.....	.....	.....	2
Physicians.....	Males	13	18	16	11	8	4	8	8	7	10	7	6
	Females	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....
Plasterers.....	Males	2	3	4	3	5	.....	4	5	3	1	4	3
Plumbers.....	Males	4	3	1	3	.....	3	1	1	1	5	1	2
Police-men.....	Males	2	4	5	7	3	2	.....	2	4	2	5	4
Potters.....	Males	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Printers and book binders.....	Males	3	3	1	3	4	1	3	1	1	3	6	4
	Females	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Professors and teachers.....	Males	6	2	7	3	3	5	4	1	4	5	4	1
	Females	9	14	4	4	3	4	5	6	8	4	2	3
Public officials.....	Males	3	3	2	4	3	2	5	1	3	.....	3	1
	Females	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
Railway employees.....	Males	20	21	21	10	27	15	15	19	16	15	15	18
Sailors.....	Males	4	2	1	2	1	.....	1	2	.....	3	2	1
Servants.....	Males	5	5	6	6	4	6	4	7	3	6	9	6
	Females	52	54	36	33	28	24	35	25	18	23	24	20
Shoemakers.....	Males	5	3	5	9	5	3	9	8	4	4	10	8
Stenographers.....	Males	.....	.....	3	.....	.....	.....	1	.....	.....	1	.....	.....
	Females	2	.....	.....	.....	1	1	1	3	2	2	1	1
Stock dealers.....	Males	2	6	1	2	3	2	1	.....	1	1	1	1
Stonecutters.....	Males	3	3	2	2	.....	.....	.....	1	4	.....	5	1
Students.....	Males	7	5	11	11	4	11	11	4	7	3	4	4
	Females	3	3	6	11	9	5	9	3	9	10	6	6
Surveyors and civil engineers.....	Males	.....	1	.....	1	.....	.....	.....	.....	.....	2	1	2

TABLE No. 7—Continued.

OCCUPATIONS.	Sex.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Tailors.....	Males.....	7	3	9	1	2	6	8	1	3	6	3	1
	Females.....	1					1						
Tanners and curriers.....	Males.....	2	2	1	1				2		1	1	
Teamsters.....	Males.....	15	9	14	12	6	9	9	10	7	15	12	9
Telegraph and telephone operators.....	Males.....	1	1	4	1	4	1	2		2	1	2	2
	Females.....		1	3	1	2	2						1
Tinners.....	Males.....	1	5	4	3		1	1	2	1	2	2	
Undertakers.....	Males.....	2	1							1		1	
Upholsterers.....	Males.....			1	1			1				1	
Veterinary surgeons.....	Males.....		1			2	1	1		1	3	1	1
Volunteer soldiers and pensioners.....	Males.....	3	4	6	6	3	6		3	1	2	3	5
Watchmakers and jewelers.....	Males.....		1	1	1	1		4		3	2		2
Weavers.....	Males.....	1	1				1					1	
	Females.....												
No occupation.....	Males.....	238	236	188	223	199	164	179	166	140	171	138	149
	Females.....	462	521	440	406	385	343	339	362	378	338	317	332
Totals.....	Males.....	1,300	1,308	1,207	1,171	1,062	918	978	949	933	1,025	1,006	1,015
	Females.....	1,173	1,282	1,124	1,031	998	860	938	926	940	899	925	904
Total, 15 years and over.....		2,473	2,590	2,331	2,202	2,061	1,778	1,916	1,875	1,873	1,924	1,931	1,914
Under 15 years.....													
Stillbirths.....													
Occupations and ages not given.....													
Grand total.....													

TABLE No. 7—Continued.

OCCUPATIONS.	Sex.	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	Un- known	Totals.	
		to 20	to 25	to 30	to 35	to 40	to 45	to 50	to 55	to 60	to 65	to 70	to 75	to 80	to 85	to 90	over.		Males.	Females.
Actors and actresses.....	Males Females		2						1	1	1					2			7	1
Agents.....	Males Females		3	4	7	4	3	3	14	8	14	14	6	2	2				84	1
Architects.....	Males			1			1		1										3	
Artists.....	Males Females					1					1	1	1						2	2
Auctioneers.....	Males											2							2	
Bakers and confectioners.....	Males Females	1	3	2	3	3	2	2	8	3	2	2	2	5	1	1	1		40	1
Bankers.....	Males						1	1	3		1	3	2	1					13	
Barbers.....	Males	1	4	10	12	6	9	3	4	5	2	4	4		1		1	1	61	
Bar-tenders.....	Males		1	5	11	15	16	16	16	3	6	1			1				91	
Basket makers.....	Males												1	1		1	1		3	
Blacksmiths.....	Males		2		6	6	6	4	10	7	13	20	9	11	15	5			114	
Bookkeepers.....	Males Females	1 1	4 1	7 2	5 1	1	2	5	5	3	2		8	2	2				47	5
Brewers, distillers, etc.....	Males	1	1		2	1	2	1	1		1		2	1					13	
Brickmakers.....	Males												1		2				3	
Builders and contractors.....	Males		1	1	1	3	6	4	8	7	6	8	9	8	4				66	
Butchers.....	Males		2	2	5	5	5	4	3	7	9	6	4	4	2				58	
Cabinet makers.....	Males			5	2	2	1	4	6	3	6	9	8	10	3	4			63	

TABLE No. 7—Continued.

OCCUPATIONS.	Sex.	15 to 20		20 to 25		25 to 30		30 to 35		35 to 40		40 to 45		45 to 50		50 to 55		55 to 60		60 to 65		65 to 70		70 to 75		75 to 80		80 to 90		90 and over.		Un- known	Totals.	
		Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females			
Carpenters.....	Males			2		9		14		12		13		22		30		46		49		41		59		50		34		6			387	
Carriage and wagon makers.....	Males					1		1		1		1		1		4		2				9		8		4		7				39		
Cheese makers.....	Males																																	
Chemists and druggists.....	Males					1				4		3		3		4		4		3		4		2								28		
Cigar makers.....	Males	3		2						1				3		4				3		8		2		1		1				31		
	Females	1																														1		
Clergymen.....	Males							2		2		6		7		1		5		14		11		13		16		14		1		93		
	Females			1										1				1		1		1		1								7		
Clerks.....	Males	15		31		30		26		19		17		15		19		15		9		9		6		3						214		
	Females	5		10		9		3		1		1		1		1														1			33	
Collectors.....	Males	1												1				1		1												4		
Commercial travelers.....	Males	1		5		4		4		3		6		5		5		3		3		6		3		1						49		
Cooks.....	Males					4				2		4				1				1		1				1						14		
	Females			1		2				1		2				1		2		1				2									12	
Coopers.....	Males							2		6				1				3		1		6		5		16		10		3		53		
Dairymen.....	Males							2				1		1						1												5		
Dentists.....	Males			1		1												1		2		3				1						9		
Draftsmen.....	Males					2				1						1																4		
Editors, reporters, etc.....	Males					1		1		1		1		1		1		1		4		3		3		1		1		1		19		
	Females					1				1																							2	
Electricians.....	Males	4		12		8		5		5				3		2		1							1							41		
Elevator operators.....	Males																															1		

TABLE No. 7—Continued.

OCCUPATIONS.	Sex.	15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	40 to 45	45 to 50	50 to 55	55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 90	90 and over	Un- known	Totals.	
																		Males	Females.
Managers and superintendents.....	Males.....		3	3	2	6	10	9	4	4	6	4	4	2				57	3
	Females.....								1	2									
Manufacturers.....	Males.....	1	1	4	2	5	4	1	3	3	8	7	4	6	5			54	
Masons.....	Males.....		4	1	1	2	2	5	6	11	6	10	5	7	5	1		66	
Mechanics.....	Males.....	1	6	9	7	6	6	10	4	7	5	6	6	7	6		1	87	
Merchants.....	Males.....	2	11	11	15	16	20	24	35	40	48	41	50	34	36	4		387	2
	Females.....								1		1								
Messengers.....	Males.....	4	1								1							6	
Millers.....	Males.....						2	2	3	5	5	8	3	3	14	2		47	
Milliners and seamstresses.....	Females.....	3	7	10	3	11	9	3	3	1	5	3	2	3	4				67
Miners.....	Males.....	11	13	19	22	21	9	13	8	12	15	16	5	5	3		2	174	
Moulders.....	Males.....		6	4	7	5	3	6	8	2	4	5	2		4	1		57	
Musicians.....	Males.....	2	3	1	2		2	1	2			1		1	1			16	4
	Females.....	1	2	1															
Nuns.....	Females.....				1	1					1								3
Nurses.....	Males.....							1					1					2	
	Females.....	1	1	2	3	1	3	1	2	1	2	1	1		3				22
Oil workers.....	Males.....			1		4		3		1	1	2	1					13	
Opticians.....	Males.....																		
Painters.....	Males.....	3	10	8	16	14	14	16	19	19	15	11	4	5	6	1		161	
Peddlers.....	Males.....				1	1				2	2	1	2					9	

Photographers.....	Males	1	2	2	2	2	6	6	9	14	17	1	1	1	11	11	1	7
Physicians.....	Males			1	4	1												116
	Females																	2
Plasterers.....	Males		1	1	1	1	1	1	2	3	11				5	2		37
Plumbers.....	Males		2	2	6	3	4	3							1			25
Policemen.....	Males		1		2	2	2	4	5	9	4	4	6	2	2	1		40
Potters.....	Males		1	1														3
Printers and bookbinders.....	Males	2	4	2	4		2	2	5	3	2	2	2		3	1	1	33
	Females	1																1
Professors and teachers.....	Males	1	9	8	2	6			2	1	3				7	1	2	45
	Females	2	9	10	9	9	3	3	5	2	3				3	1	4	66
Public officials.....	Males				1	2	3	1	2	4	3	8	3	1	2			30
	Females		1															1
Railway employees.....	Males	6	25	27	16	25	23	21	18	14	13	9	9	2	2	1	1	212
Sailors.....	Males	1	1	3	2				2	2	2				2	4		19
Servants.....	Males	8	13	4	5	2	2	6	4	8	6	2	1	4	1			67
	Females	53	52	37	12	20	23	17	25	19	25	18	23	21	21	5	1	372
Shoemakers.....	Males				1	3	2	3		4	4	10	9	21	14	2		73
Stenographers.....	Males	1			1													2
	Females	2	6	4	2	3												17
Stock dealers.....	Males				1	1	1	2	1	4	1	5	1	1	2			21
Stonecutters.....	Males		2		1	1	1	1	2	3	2	2	3		4			23
Students.....	Males	52	19	3		1												82
	Females	65	13	1														79
Surveyors and civil engineers.....	Males	1		1	1			1			1				1	1		7
Tailors.....	Males		1	2	1	3	3	3	3	1	3	5	7	9	9			50
	Females					1	1						1					2
Tanners and curriers.....	Males					1			1		1		1	4	2			10

TABLE No. 7—Continued.

OCCUPATIONS.	Sex.	15	20	25	30	35	40	45	50	55	60	65	70	75	80	90	Un- known	Totals.	
		to 20	to 25	to 30	to 35	to 40	to 45	to 50	to 55	to 60	to 65	to 70	to 75	to 80	to 90	Males.		Females.	
Teamsters.....	Males.....	6	4	8	13	7	15	14	17	15	13	13	2					127	
Telegraph and telephone operators.....	Males.....	1	6	4	2		3	1	2	1								21	
	Females.....	1	6		1		1	1					1						10
Tinners.....	Males.....	2	2		2	1	2	1	1	1	3	3	1	2				21	
Undertakers.....	Males.....			1					1	1	1	1						5	
Upholsterers.....	Males.....		1	1			1										1	4	
Veterinary surgeons.....	Males.....				2		1			2	1	4			1			11	
Volunteer soldiers and pensioners.....	Males.....				1	1		1			10	9	7	6	6	1		42	
Watchmakers and jewelers.....	Males.....		1		1	1		1		1	1	1	3	3	2			15	
Weavers.....	Males.....								1				1	1	1			4	
	Females.....												1						1
No occupation.....	Males.....	131	112	85	68	82	79	93	106	131	159	202	298	270	307	42	26	2,191	
	Females.....	274	275	213	221	178	176	220	194	271	314	445	471	552	684	120	15		4,022
Totals.....	Males.....	482	675	614	622	634	636	716	875	972	1,105	1,278	1,453	1,254	1,360	179	47	12,902	
	Females.....	525	723	699	627	621	583	688	694	790	937	1,140	1,195	1,148	1,371	215	34		11,990
Total, 15 years and over.....		1,007	1,398	1,313	1,249	1,255	1,219	1,404	1,569	1,762	2,042	2,418	2,648	2,402	2,731	394	81		24,892
Under 15 years.....																			
Stillbirths.....																		2,028	
Occupations and ages not given.....																			
Grand total.....																			36,224

TABLE No. 8.

Deaths from Tuberculosis, all Forms, with Rates per 100,000 Population, for Certain Occupations of each sex in Indiana, 1908.

OCCUPATION.		Number of Deaths 15 Years of Age and Over	Death Rate per 100,000.
MALES.			
1	Farmers	493	18.0
2	Laborers	391	14.3
3	No occupations	240	10.6
4	Clerks	52	1.9
5	Carpenters	45	1.6
6	Merchants	34	1.2
7	Painters	34	1.2
8	Students	33	1.2
9	Railroad employes	28	1.0
10	Machinists	26	.9
11	Teamsters	26	.9
12	Miners	25	.9
13	Bartenders	24	.8
14	Barbers	20	.7
15	Factory hands	15	.5
16	Servants	15	.5
17	Engineers	15	.5
18	Glassworkers	14	.5
19	Mechanics	14	.5
20	Agents	13	.4
21	Bookkeepers	12	.4
22	Physicians	11	.4
23	Clergymen	11	.4
24	Cabinetmakers	11	.4
25	Moulders	10	.3
26	Millers	9	.3
27	Managers and superintendents	9	.3
28	Cigarmakers	8	.2
29	Commercial travelers	8	.2
30	Blacksmiths	8	.2
31	Plumbers	8	.2
32	Printers and bookbinders	8	.2
33	Electricians	8	.2
34	Harnessmakers and saddlers	8	.2
35	Coopers	7	.2
36	Butchers	7	.2
37	Chemists and druggists	7	.2
38	Professors and school teachers	7	.2
39	Lumbermen	7	.2
40	Tailors	7	.2
41	Telephone and telegraph operators	7	.2
42	Firemen	6	.2
43	Plasterers	6	.2
44	Mail service	6	.2
45	Masons	6	.2
46	Tinners	6	.2
47	Cooks	5	.1
48	Bakers and confectioners	5	.1
49	Sawyers	5	.1
50	Liverymen	5	.1
51	Stonecutters	5	.1
52	Builders and contractors	4	.1
53	Gardeners	4	.1
54	Police	4	.1
55	Brewers and distillers	4	.1
56	Musicians	4	.1
57	Stock dealers	4	.1
58	Carriage and wagonmakers	3	.1
59	Sailors	3	.1
60	Hotel and boardinghouse keepers	3	.1
61	Shoemakers	3	.1
62	Stenographers	2	.07
63	Volunteer soldiers and pensioners	3	.1

[48—22268]

TABLE No. 8—Continued.

OCCUPATION.		Number of Deaths 15 Years of Age and Over.	Death Rate per 100,000.
64	Photographers	2	.07
65	Inspectors	2	.07
66	Laundrymen	2	.07
67	Manufacturers	2	.07
68	Undertakers	2	.07
69	Upholsterers	2	.07
70	Veterinary surgeons	2	.07
71	Collectors	1	.03
72	Dentist	1	.03
73	Editors and reporters	1	.03
74	Actors	1	.03
75	Artists	1	.03
76	Brickmakers	1	.03
77	Potters	1	.03
78	Watchmakers	1	.03
79	Public officials	1	.03
FEMALES.			
1	Housewives	1,151	42.2
2	No occupations	813	29.7
3	Servants	62	2.2
4	Students	37	1.3
5	Professors and teachers	22	.8
6	Milliners and seamstresses	22	.8
7	Clerks	14	.5
8	Stenographers	8	.2
9	Factory hands	6	.2
10	Nurses	5	.1
11	Musicians	4	.1
12	Cooks	3	.1
13	Telephone and telegraph operators	2	.07
14	Clergywomen	2	.07
15	Printers and bookbinders	1	.03
16	Hair dressers	1	.03
17	Laundresses	1	.03
18	Editors and reporters, etc	1	.03
Total males		1,904	69.7
Total females		2,158	79.0
Total all occupations		4,062	149.7

	Page
Pittsboro	100
Putnamville	73
Quincy	135
Scipio	74
Spiceland	147
Stilesville	71
Wheatland	68
Windfall	102
Burket	130
Jamestown—Sanitary inspection of schoolhouse	83
Jasper—Sanitary inspection of schoolhouse	79
Jamestown Exposition	80
Kokomo—Read paper before Howard County Medical Society.....	124
Lafayette—To address students of Purdue University	36
Lafayette—Lecture to convocation of students	83
Lawrenceburg—Account measles	35
Lebanon—Account address to Boone County Farmers' Institute	82
Lebanon—Lecture before Woman's Auxiliary	83
Lewis—Sanitary inspection of schoolhouse	75
Letter referred by Governor to the Board	142
Liberty—Lecture for County Teachers' Institute	139
Lake Michigan—	
Report of Sanitary Condition of Southern End by Chemical Laboratory	441
Drainage of the Calumet Region	445
Lake Currents	445
Lake Level During July, August and September	449
Quality of Water of Lake Michigan	450
Chemical Composition of Water	451
Location and Water Front of East Chicago and Hammond.....	452
Water Supply of Lake County	453
Disposition of Sewage	455
Local Sources of Pollution	456
Discharge of Local Sewers Into Lake	457
Shore Wash	459
Dumping of Dredged Material	459
Accidental Pollution by Boats	460
Factors Which Affect Self-Purification of Lakes	460
Bacterial Survey of Lake Michigan—	
Summary	464
Recommendations	465
Chart No. 1—Showing Typhoid Death Rates	469
Chart No. 2—Study of Lake Michigan	470
Chart No. 3—Maximum Bacterial Counts at Sampling Points	471
Chart No. 4—Bacterial Counts and Distribution of Sewage..	472
Chart No. 5—Bacterial Counts and Distribution of Sewage..	473
Chart No. 6—Showing Distribution of Bacterial Counts.....	474

	Page
Chart No. 7—Distribution of Sewage by Westerly Currents. .	475
Chart No. 8—Distribution of Sewage by Easterly Currents. .	476
Chart No. 9—Distribution of Sewage by Northerly and Southerly Currents	477
Chart No. 10—Minimum, Maximum and Average Bacterial Counts in Lake Michigan Water	479
Diagram—Longevity of Typhoid Bacilli	478
Key to Sampling Points	480 481
Table No. 1—Bacteria in Lake Michigan Aug. 19, 1908.....	482
Table No. 2—Bacteria in Lake Michigan Aug. 20, 1908.....	483
Table No. 3—Bacteria in Lake Michigan Aug. 21, 1908.....	484
Table No. 4—Bacteria in Lake Michigan Aug. 22, 1908.....	485
Table No. 5—Bacteria in Lake Michigan Aug. 24, 1908.....	486
Table No. 6—Bacteria in Lake Michigan Aug. 25, 1908.....	487
Table No. 7—Bacteria in Lake Michigan Aug. 26, 1908.....	488
Table No. 8—Bacteria in Lake Michigan Aug. 27, 1908.....	489
Table No. 9—Bacteria in Lake Michigan Aug. 28, 1908.....	490
Table No. 10—Bacteria in Lake Michigan Aug. 29, 1908.....	491
Table No. 11—Bacteria in Lake Michigan Aug. 31, 1908.....	492
Table No. 12—Bacteria in Lake Michigan Sept. 1, 1908.....	493
Table No. 13—Bacteria in Lake Michigan Sept. 3, 1908.....	494
Table No. 14—Bacteria in Lake Michigan Sept. 4, 1908.....	495
Table No. 15—Bacteria in Lake Michigan Sept. 5, 1908.....	496
Table No. 16—Bacteria in Lake Michigan Sept. 9, 1908.....	497
Table No. 17—Bacteria in Lake Michigan Sept. 10, 1908.....	498
Table No. 18—Bacteria in Lake Michigan Sept. 11, 1908.....	499
Table No. 19—Bacteria in Lake Michigan Sept. 14, 1908.....	500
Table No. 20—Bacteria in Lake Michigan Sept. 15, 1908.....	501
Table No. 21—Bacteria in Lake Michigan Sept. 16, 1908.....	502
Table No. 22—Bacteria in Lake Michigan Sept. 17, 1908.....	503
Table No. 23—Bacteria in Lake Michigan Sept. 18, 1908.....	504
Table No. 24—Bacteria in Lake Michigan Sept. 19, 1908.....	505
Table No. 25—Bacteria in Lake Michigan Sept. 22, 1908.....	506
Table No. 26—Bacteria in Lake Michigan Sept. 24, 1908.....	507
Table No. 27—Bacteria in Lake Michigan Sept. 26, 1908.....	508
Table No. 28—Bacteria in Lake Michigan Aug. 19 to Sept. 27, 1908	510
Table No. 29—Analysis of Lake Michigan Water	512
Table No. 30—Typhoid Fever Deaths in Hammond from 1903- 1908	513
Table No. 31—Typhoid Deaths in City of Whiting, from 1904- 1908	513
Table No. 32—Typhoid Deaths in City of East Chicago, from 1903-1908	514
Laboratory—Bacteriological and Pathological Superintendent's report	151 191
Ligonier—Account of diphtheria	189

	Page
Table No. 14	421
Table No. 15	422
Table No. 16	423
Table No. 17	424
Table No. 18	425
Table No. 19	426
Table No. 20	427
Table No. 21	428
Table No. 22	429
Table No. 23	430
Table No. 24	431
Table No. 25	432
Table No. 26	434
Table No. 27	436
Table No. 28	437
Meetings of the State Board of Health for 1908—	
Regular meeting, quarter ending December 31, 1907	29
Regular meeting, quarter ending March 31, 1908	81
Regular meeting, quarter ending June 30, 1908	119
Regular meeting, quarter ending September 30, 1908	137
Special meeting	65
Special meeting	111
Special meeting	133
Adjourned meeting	120
Adjourned meeting	135
New Augusta—Sanitary survey of schoolhouse	67
Notice to canners and packers	526
Otwell—Sanitary survey of schoolhouse	66
Ordered—Annual conference of health officers	80
Plate No. 1—Unprotected pushcart	520
Plate No. 2—Protected pushcart	521
Plate No. 3—Plates exposed in unprotected and protected windows	522
Plate No. 4—Plates exposed at cheese counter	523
Parker—Sanitary inspection of schoolhouse	138
Plainfield—Account of diphtheria	32
Plainfield—Investigation by Dr. Knabe	32
Pollution of Streams—	
Water supplies and sewers	7
Proclamation of Condemnation of Schoolhouses—	
Brooklyn	99
Brownsburg	107
Coalmont	112
Cutler	97
District No. 4, Patoka Township, Crawford County	77
District No. 12, Delaware Township, Hamilton County	95
District No. 3, Washington Township	101
Douglass	79

	Page
Dunkirk	93
Franklin high school	116
Fort Branch	115
Kempton	105
Lewis	76
Lyons	97
Marco	73
Markleville	108
Mays	106
New Augusta	68
New Winchester	110
Orland	118
Otwell	66
Oxford	114
Pennville	93
Pittsboro	100
Putnamville	74
Pymont	77
Quincy	136
Scipio	75
Stilesville	72
Wheatland	70
Windfall	103
Burket	132
Pennville—Condemnation of schoolhouse extended	126
Plymouth—To meet health officers	123
Quarantine—Rules pertaining to	53
Quincy—Inspection of schoolhouse	135
Quincy—Condemnation of schoolhouse	136
Recommendations—	
Sanitary schoolhouses	6
Medical examination of school children	6
Teaching hygiene in public schools	6
Registration report for 1908	609
Record of births	610
Record of marriages	610
Record of deaths	610
Regular meeting of Board, quarter ending December 31st, 1907	29
Regular meeting of Board, quarter ending March 31st, 1908	81
Regular meeting of Board, quarter ending June 30th, 1908	119
Regular meeting of Board, quarter ending September 30th, 1908	137
Report of State Laboratory of Hygiene, Division of Bacteriology and Pathology	149
Superintendent's report	151
Third annual report of Department of Bacteriology and Pathology	152
Communications by letter	153
Examination of school children	153
Tuberculosis	154

Statistical Report of Year—	Page
Registration Report	609
Record of Births	610
Record of Marriages	610
Record of Deaths	610
Table I—Deaths, All Causes, with Rates.....	657
Table II—Deaths, All Causes, by Months, Ages, Nationality, etc.....	662
Table IIA—Recapitulation of Table No. 2.....	682
Table III—Deaths by Months, Counties, Ages, Sex, Color, etc.....	685
Table IV—Deaths by Geographical Sections.....	714
Table V—Death Rates from Important Causes by Geographical Sec- tions	718
Table VI—Death Rates of Principal Cities and Country for Nine Years	722
Table VII—Deaths by Occupation, Months and Ages.....	741
Table A—Births by Months, Color and Nationality of Parents.....	723
Table B—Births, Number of Children Born to Each Mother, etc.....	726
Table C—Marriages by Months, Color and Nationality.....	734
Table D—Marriages, Grouped Ages.....	738
Terre Haute—Account of lecture to convocation of students.....	86
Terre Haute—To confer with school and health authorities.....	86
Typhoid Fever Comparison for Fourth Quarter of 1907.....	31
Typhoid Fever Comparison for First Quarter of 1908.....	82
Typhoid Fever Comparison for Second Quarter of 1908.....	121
Typhoid Fever Comparison for Third Quarter of 1908.....	142
Valparaiso Home Water Co.—	
Report of	349
Bacterial analyses, results of.....	354
Chemical analyses, results of.....	358
Vincennes filter plant inspection.....	366
Visits by J. L. Anderson, Chief Clerk—	
Brazil—To inspect books.....	91
Shelbyville—To inspect books.....	90
Vincennes—To examine books.....	90
Visits and Inspections—	
Anderson	189
Anderson and Alexandria.....	83
Bloomfield	32 121
Bloomington	122
Bridgeport	42
Broad Ripple	138
Crawfordsville	122-126
Danville	32
Edinburg	83
Elwood	31-32
Eminence	31-42
Fountaintown	83
Francesville	84
Franklin	32-122-126 140
French Lick	83-122
Ft. Wayne	83-121

	Page
Experiment No. 1.....	255
Experiment No. 2.....	255
- Experiment No. 3.....	256
Experiment No. 4.....	256
Experiment No. 5.....	256
Experiment No. 6.....	256
Experiment No. 7.....	256
Experiment No. 8.....	256
Drugs—	
Deterioration of Some Standard Pharmaceuticals.....	259
Labeling of Drugs.....	260
Guarantee Label	260
Shelf Bottles	270
Flavoring Extracts	270
Circular of Information to Drug Trade.....	271
Labels of Drugs. List of.....	273-313
Chart of Adulteration of Drugs in Indiana—	
Percentage of	314
Drugs—Analysis of	315
Aqua Ammonia—Analysis of	316
Aqua Ammonia—Legal	317
Aqua Ammonia—Illegal	318
Household Ammonia	317
Beeswax—Analysis of	318
Beeswax (Yellow)—Legal	319
Beeswax (Yellow)—Illegal	319
Castor Oil—Legal	319
Compound Licorice Powder—Analysis of	319
Compound Licorice Powder	320
Essence of Peppermint—Analysis of	320
Essence of Peppermint—Legal and Illegal.....	320
Glycerine—Analysis of	321
Lemon Oil—Legal and Illegal.....	321
Lime Water—Analysis of	321
Lime Water—Legal	322
Lime Water—Illegal	323
Linseed Oil—Analysis	323
Linseed Oil—Legal and Illegal.....	323
Olive Oil—Analysis of	323
Olive Oil—Legal	324
Patent Medicines	324
Patent Medicines—Analyses of	325
Paregoric—Legal	326
Potassium Cyanide	326
Potassium Cyanide—Legal	326
Potassium Cyanide—Illegal	327
Powdered Senna Leaves—Legal.....	327
Precipitated Sulphur—Legal and Illegal.....	327
Quinine Sulphate—Legal	328

	Page
Loogootee	537
Madison	539
Marengo	539
Markland	539
Martinsville	540
Memphis	539
Millan	540
Muncie	540
New Castle	541
Noblesville	541
North Vernon	540
Otisco	541
Paris Crossing	541
Patriot	541
Pekin	541
Peru	542
Pierceton	542
Plymouth	542
Princeton	541
Rising Sun	542
Rockport	542
Salem	543
Scottsburg	543
Sellersburg	542
Seymour	542
Sharpsville	543
Shelbyville	543
Swayzee	544
Switz City	543
Tell City	544
Terre Haute	544
Tipton	544
Underwood	544
Vienna	545
Vincennes	545
Wabash	545
Warsaw	545
Westfield	545
West Terre Haute	545
Windfall	545
Washington	546
Whiteland	546
Worthington	546
Report of Sanitary Inspections—	
Summary of Inspections	547
Table—Summary of Inspections	552
Comparative Study of Sanitary Conditions in 1907-1908	552

	Page
Henryville	570
Hope	570
Huntingburg	570
Huntington	570
Idaville	571
Indiana Harbor	571
Indianapolis	571
Independence	571
Ingalls	571
Jasonville	572
Jeffersonville	572
Jonesville	572
Kentland	572
Kewanna	572
Knightstown	573
Knox	573
Kokomo (two visits).....	573
Lafayette	573
Lagrange	574
Laporte	574
Lawrence	574
Lawrenceburg	574
Lebanon	574
Liberty	574
Ligonier	575
Linton	575
Linnsburg	575
Logansport (two visits).....	575
Loogootee (two visits).....	576
Lyons (two visits).....	576
Mace	576
Madison	576
Marion	577
Martinsville (three visits).....	577
Medaryville	578
Medora	578
Memphis	578
Michigan City	578
Middletown	578
Milford	578
Milton	578
Milltown	579
Mitchell	579
Monon	579
Monroe	579
Monticello	579
Monroeville	579
Montgomery	580
Montpeller	580
Mooresville	580

	Page
Morristown	580
Mt. Vernon	580
Muncie	580
New Albany	581
Newberry	581
Newburg	581
New Castle	582
New Harmony	582
New Palestine	582
Noblesville	582
North Grove	582
North Judson	582
North Manchester	583
North Vernon	583
Oakland City	583
Odon	583
Oolitic	584
Orestes	584
Orleans	584
Osgood	584
Owensville	584
Paoli	584
Pekin	585
Pendleton	585
Peru	585
Petersburg	585
Plainfield	585
Plainville	585
Plymouth	586
Poryland	586
Poseyville	586
Princeton	586
Rensselaer	586
Richmond	586
Redkey	587
Ridgeville	587
Rising Sun	587
Rosam	587
Rochester	587
Rockfield	587
Rockport	588
Rockville	588
Rushville	588
Sandborn	588
Santa Fe	588
Salem	588
Scottsburg	588
Seelyville	588
Sellersburg	588

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